

FIGURE 1a

Rose 8009  
sh. 1. F. 61

PRIOR ART

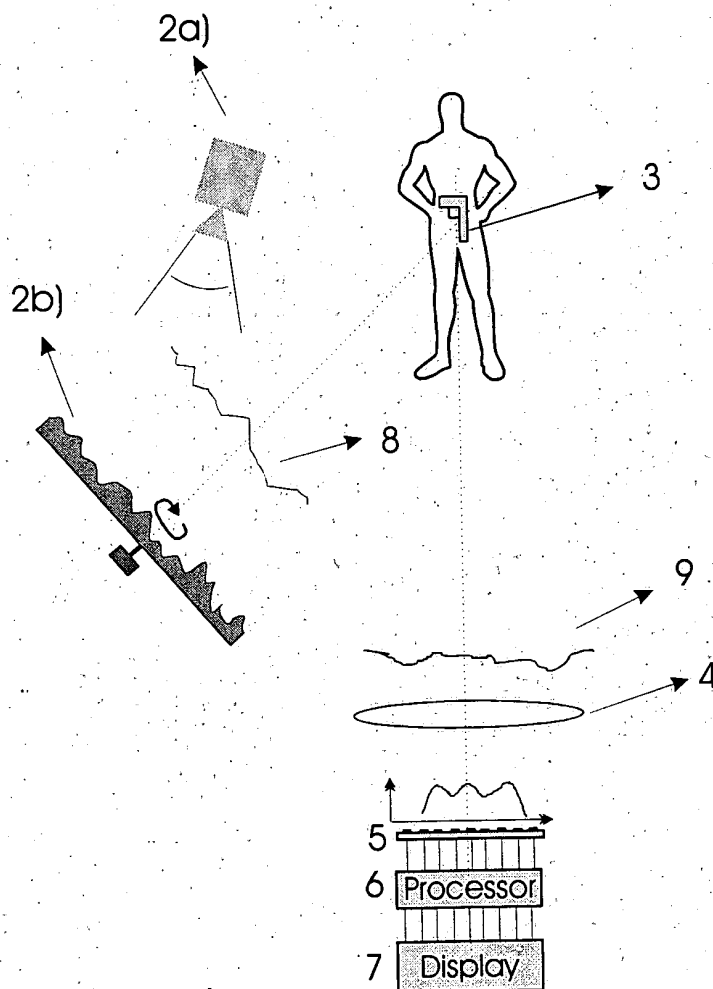


FIGURE 1b

Rose 8009  
Sh 2 of 61

PRIOR ART

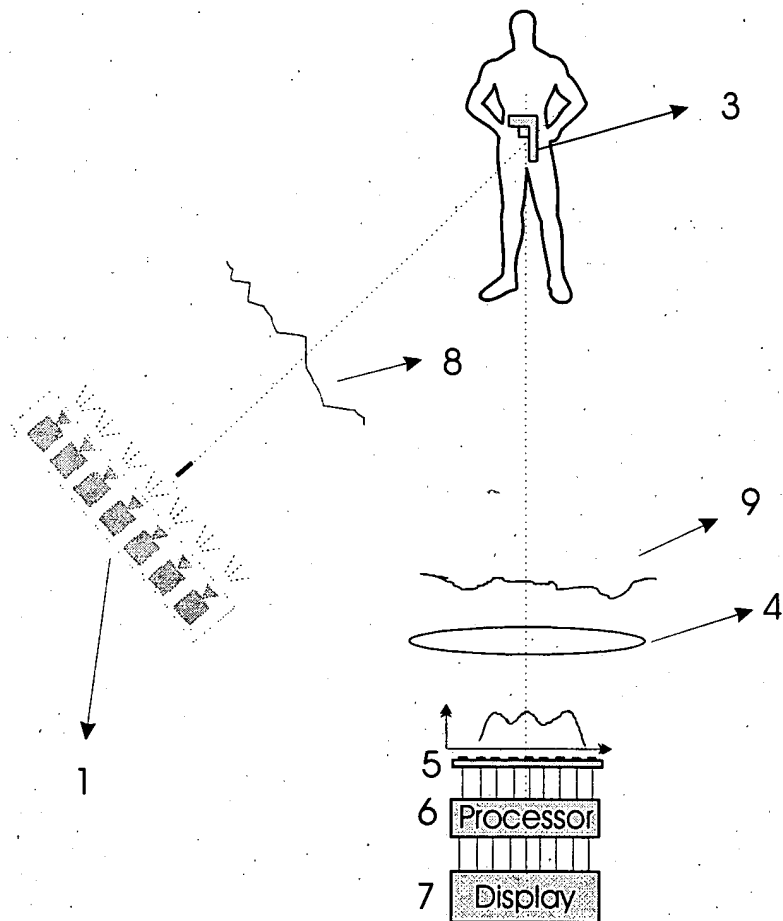


FIGURE 1c

Rose 8009  
Sh 3 of 61

PRIOR ART

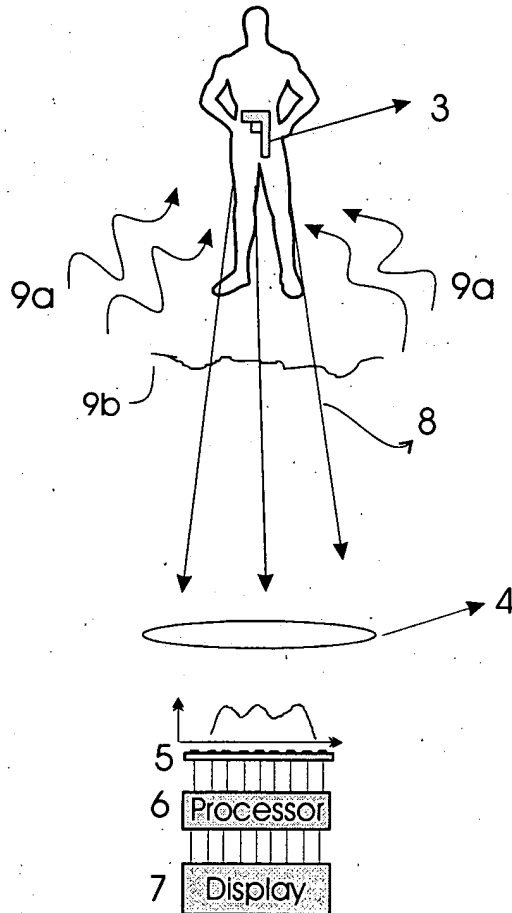


FIGURE 2

Rose 8009  
Sh 4 of 61

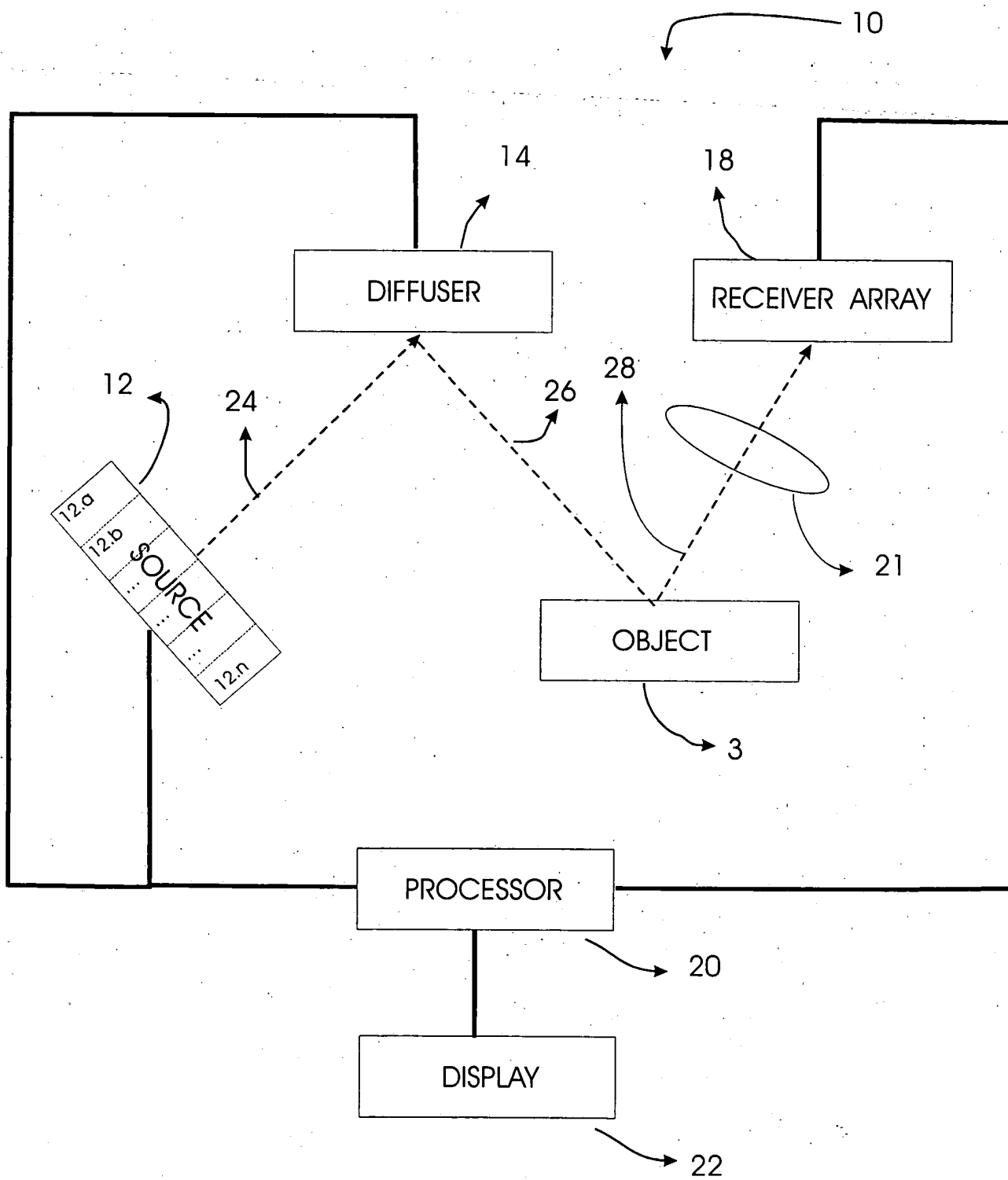


FIGURE 3a

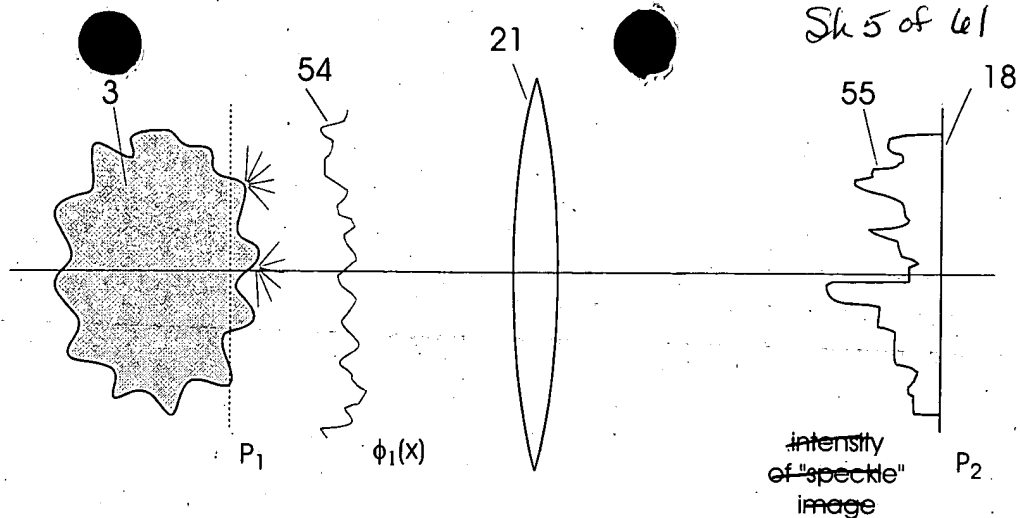


FIGURE 3b

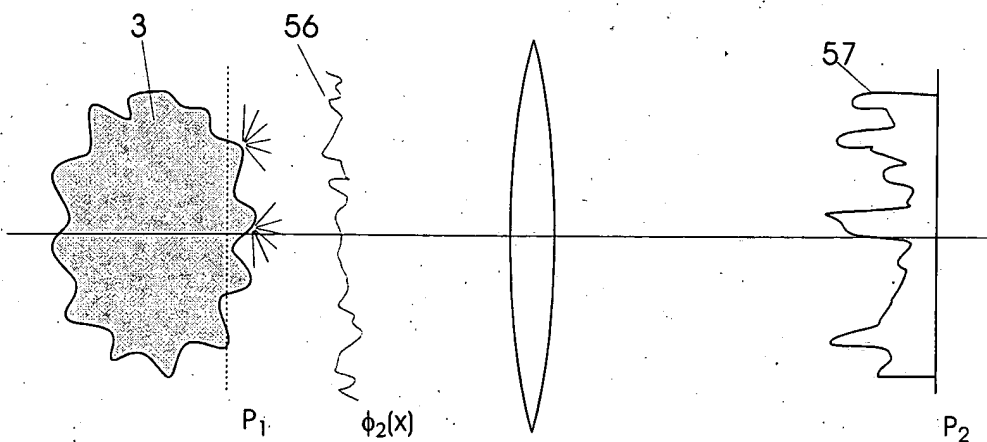


FIGURE 3c

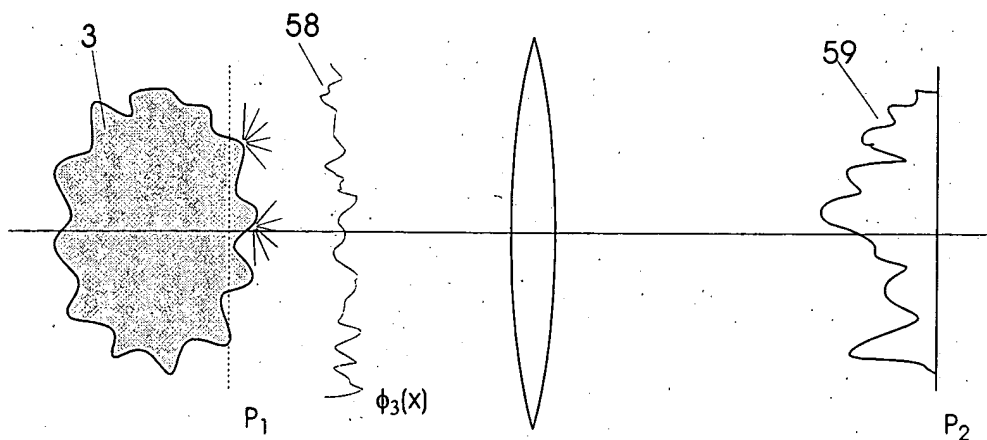


FIGURE 3d

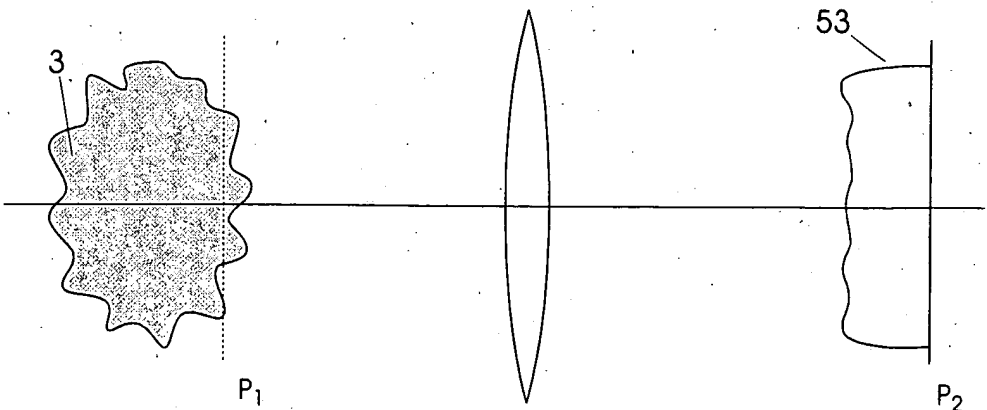
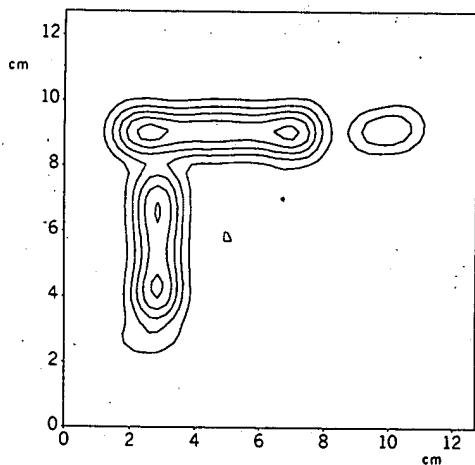


FIGURE 4a

FIGURE 4b

200



205

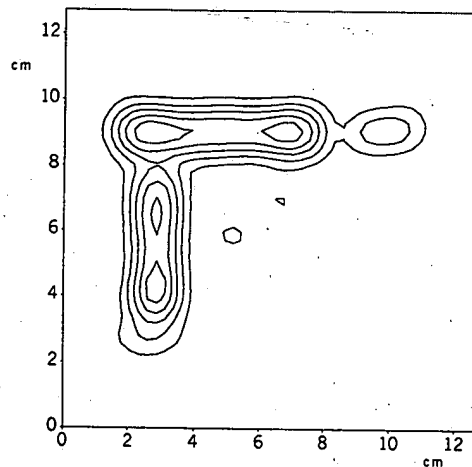
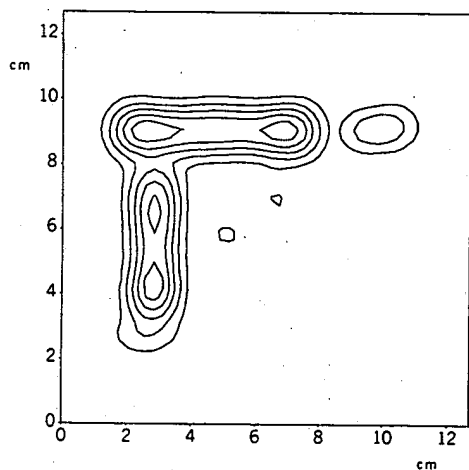


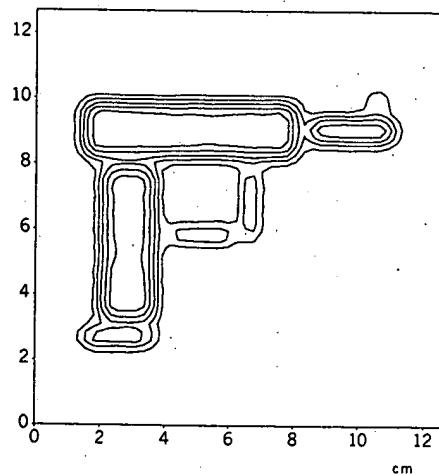
FIGURE 4c

FIGURE 4d

210



215



Rose 2001  
Sh 7 of 61

Figure 5a

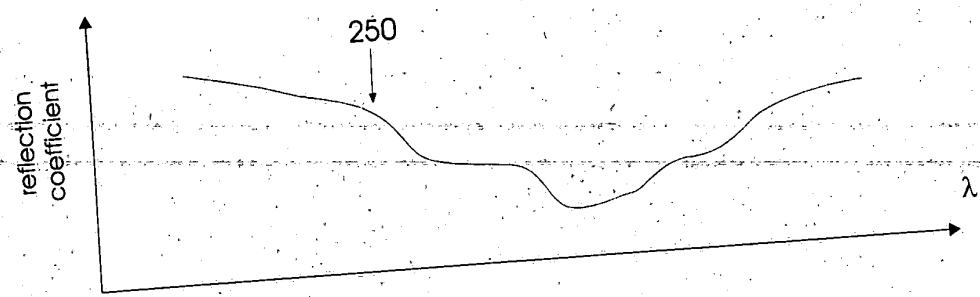


Figure 5b

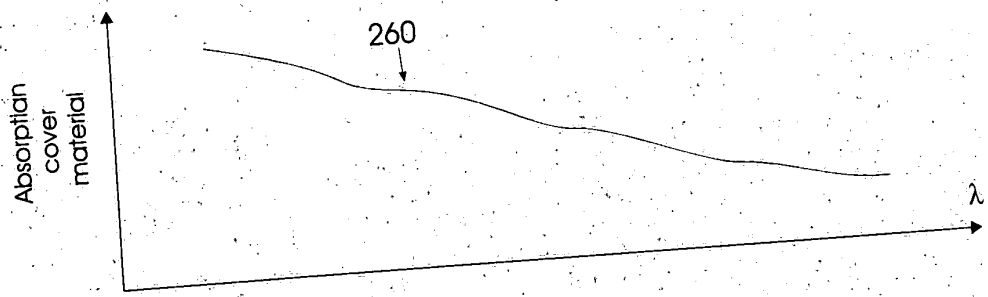


Figure 5c

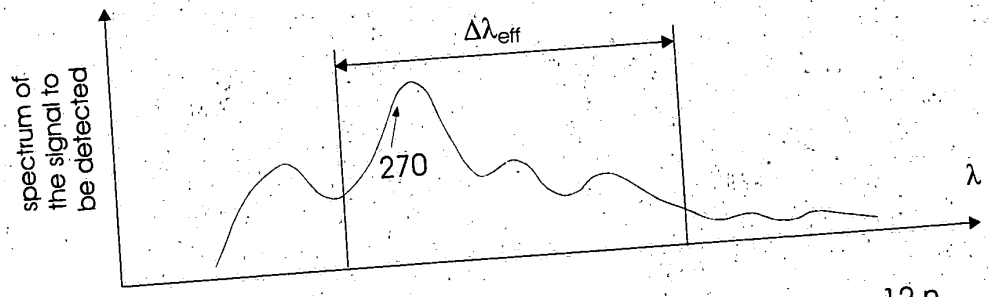


Figure 5d

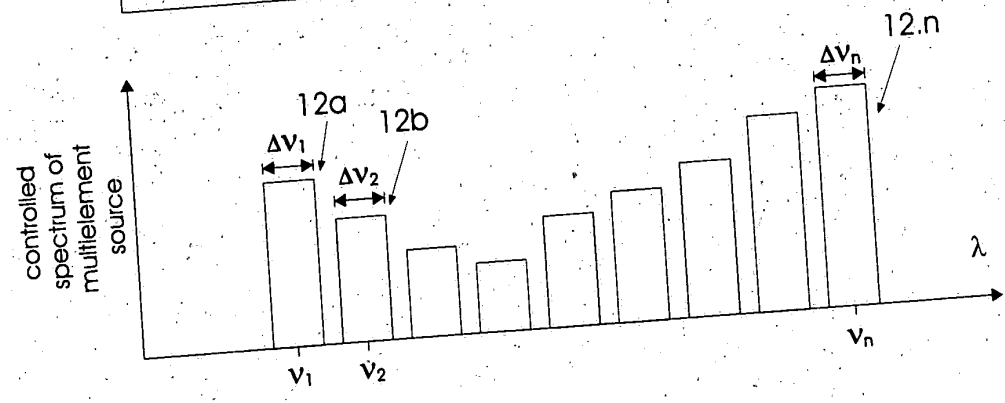


Figure 5e

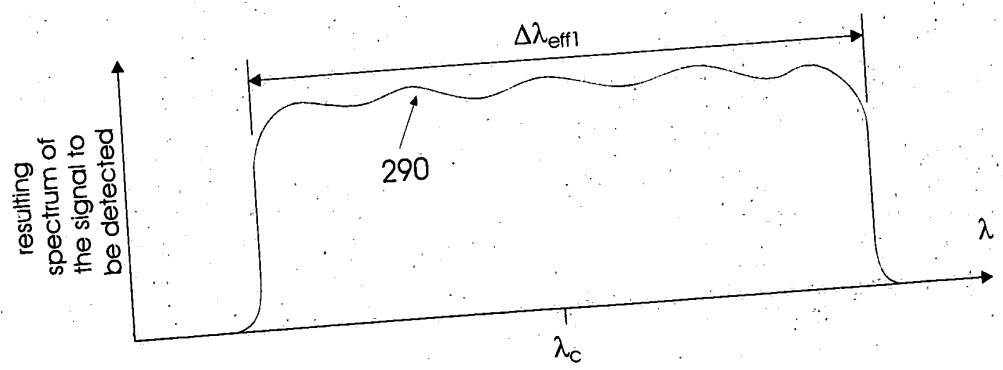


FIGURE 6

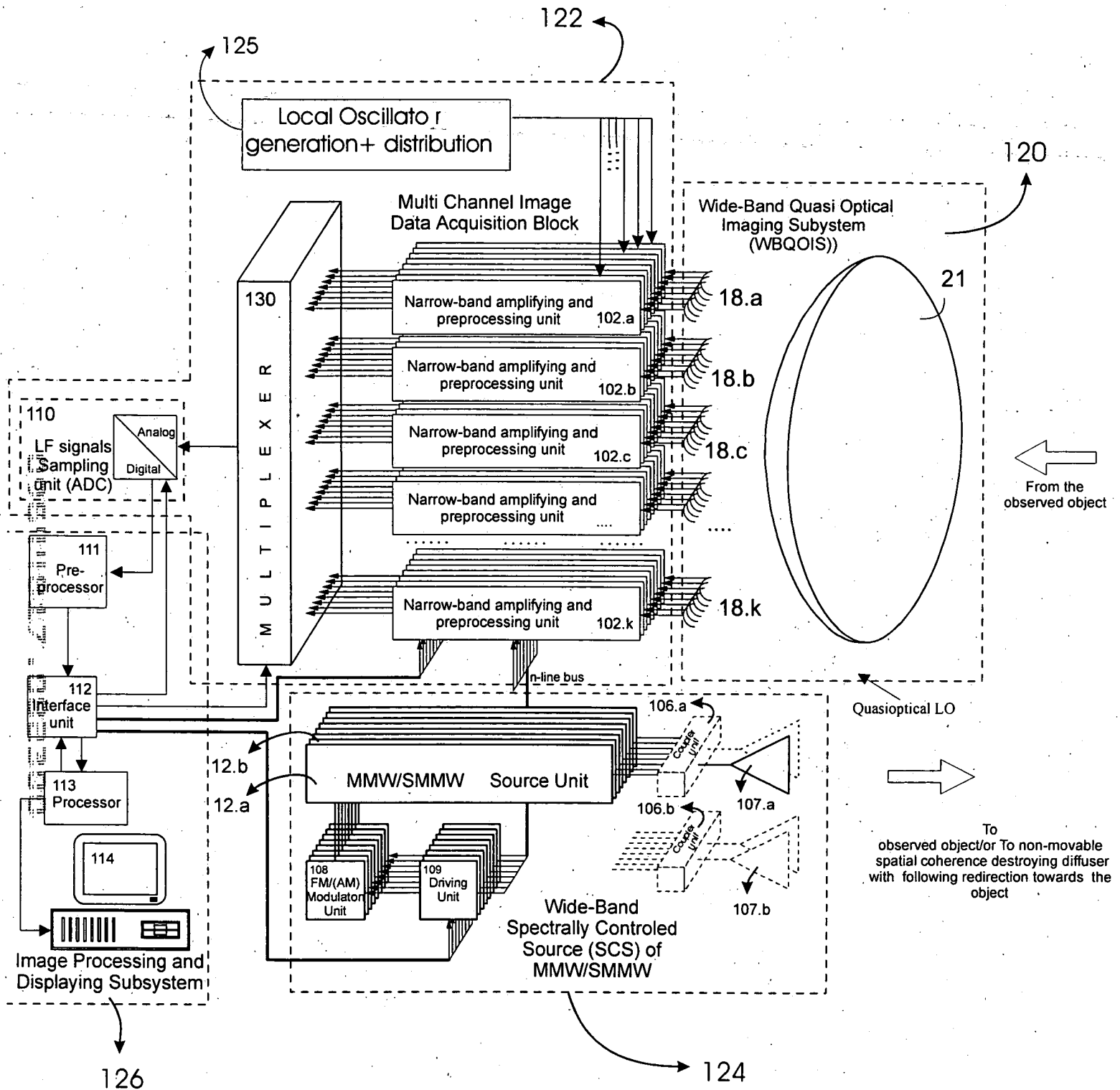




FIGURE 7a

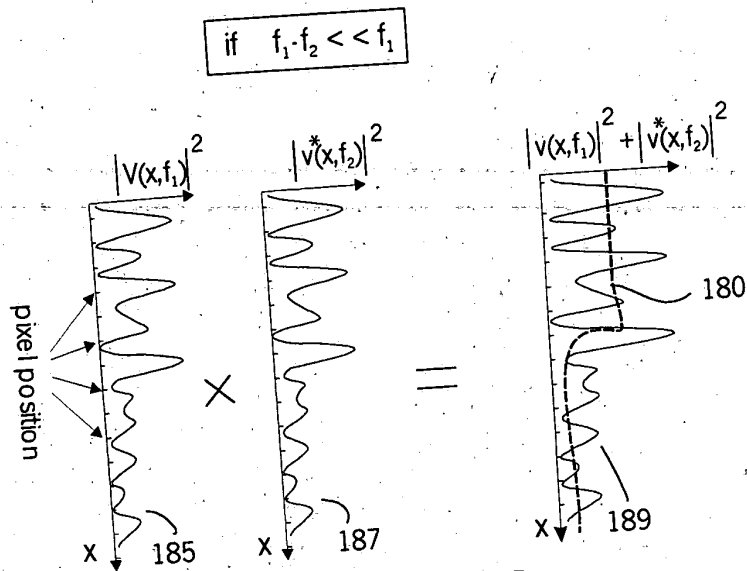


FIGURE 7b

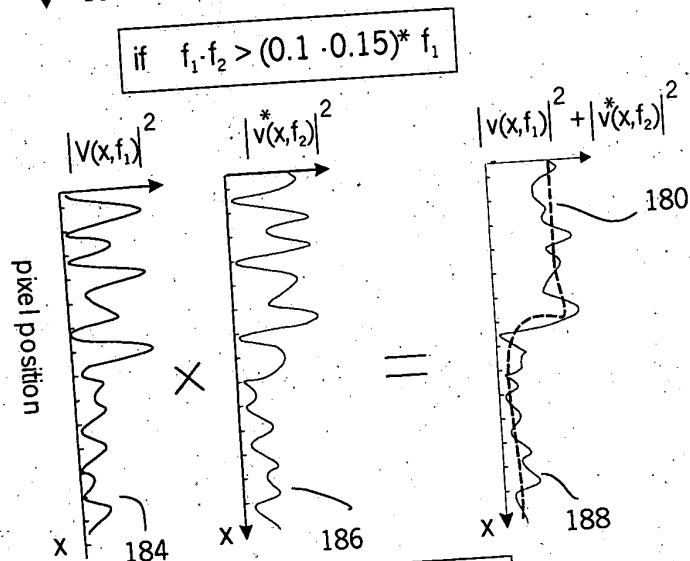


FIGURE 7c

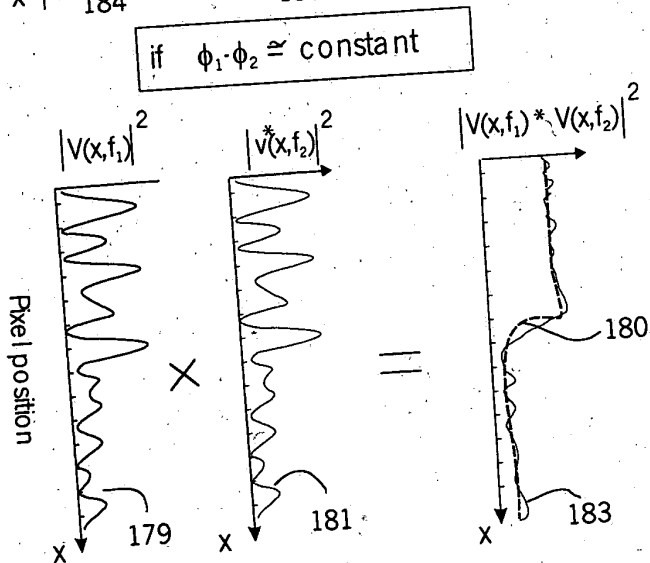


FIGURE 8

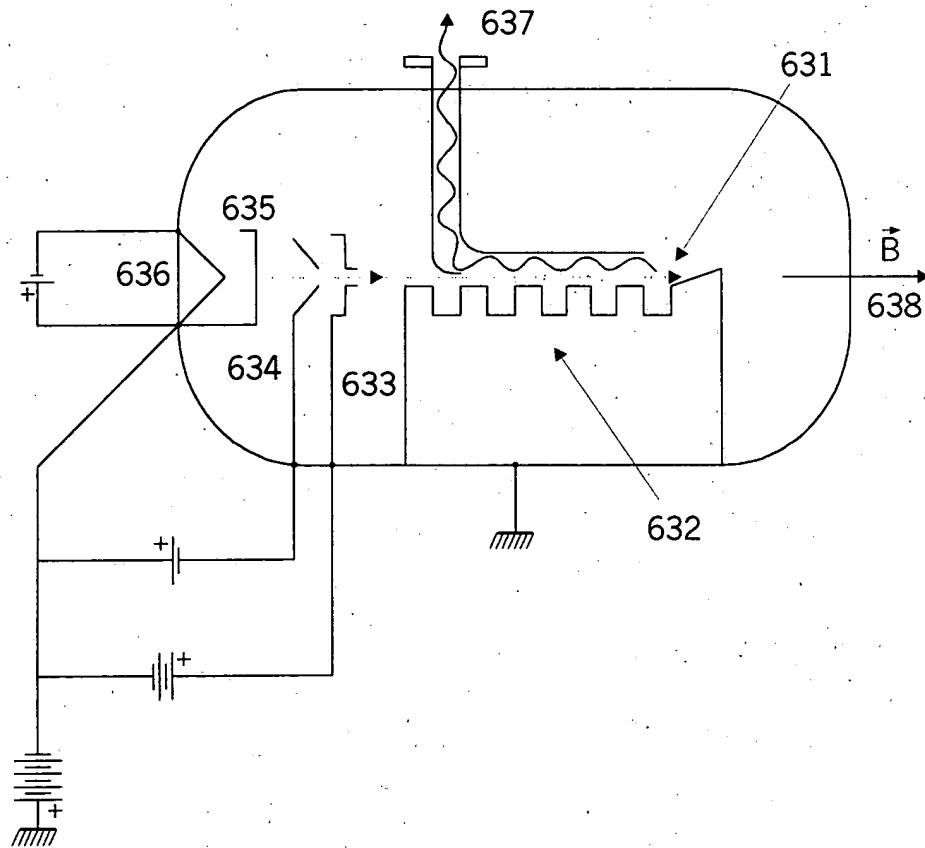


FIGURE 9.a\_

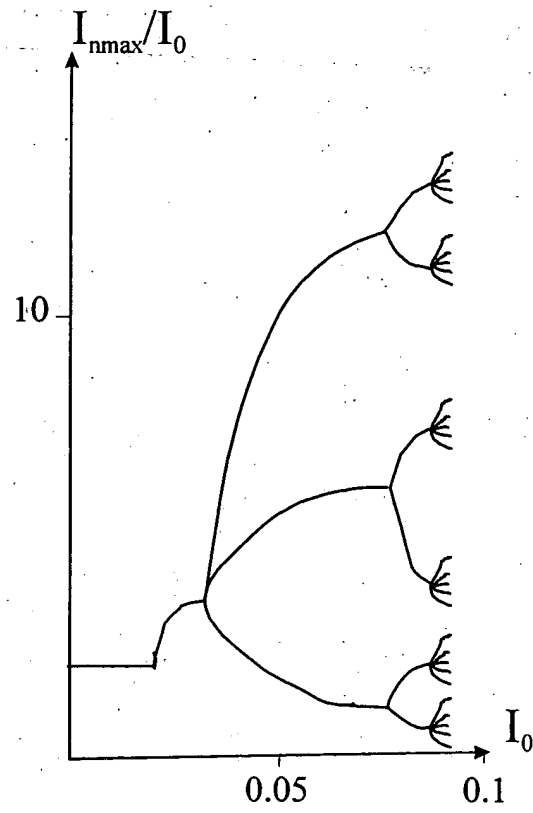


FIGURE 9.b

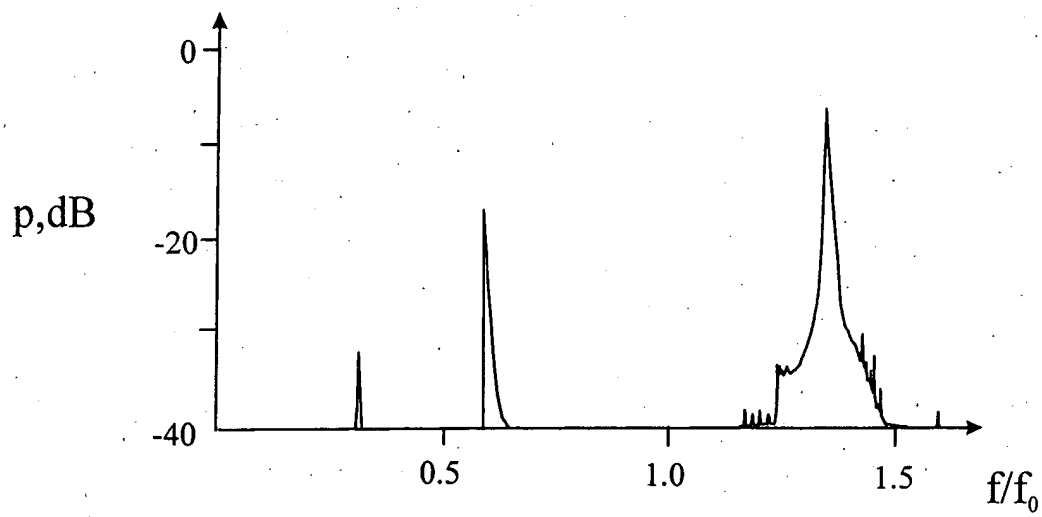


FIGURE 10

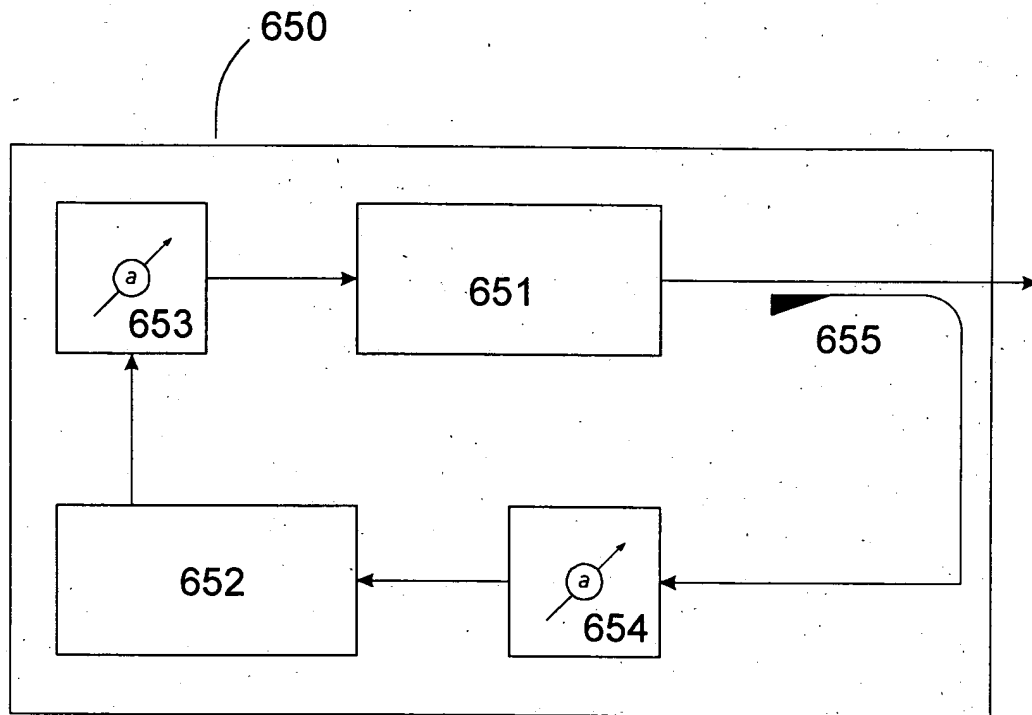


FIGURE 11a

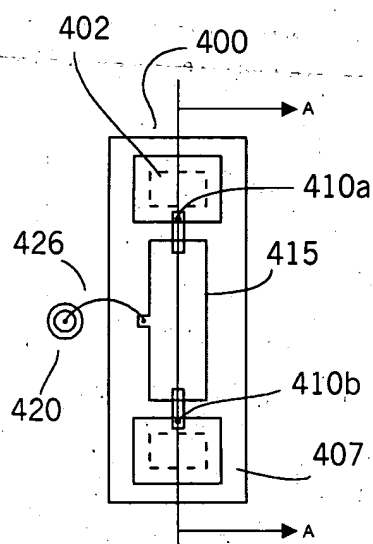


FIGURE 11b

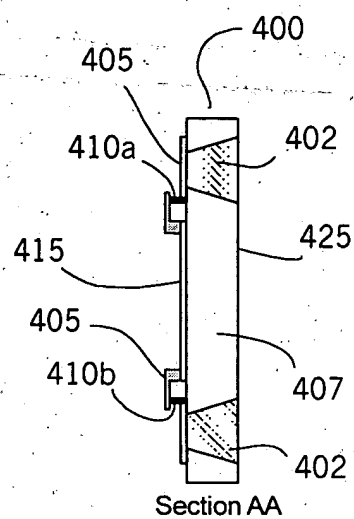


FIGURE 11c

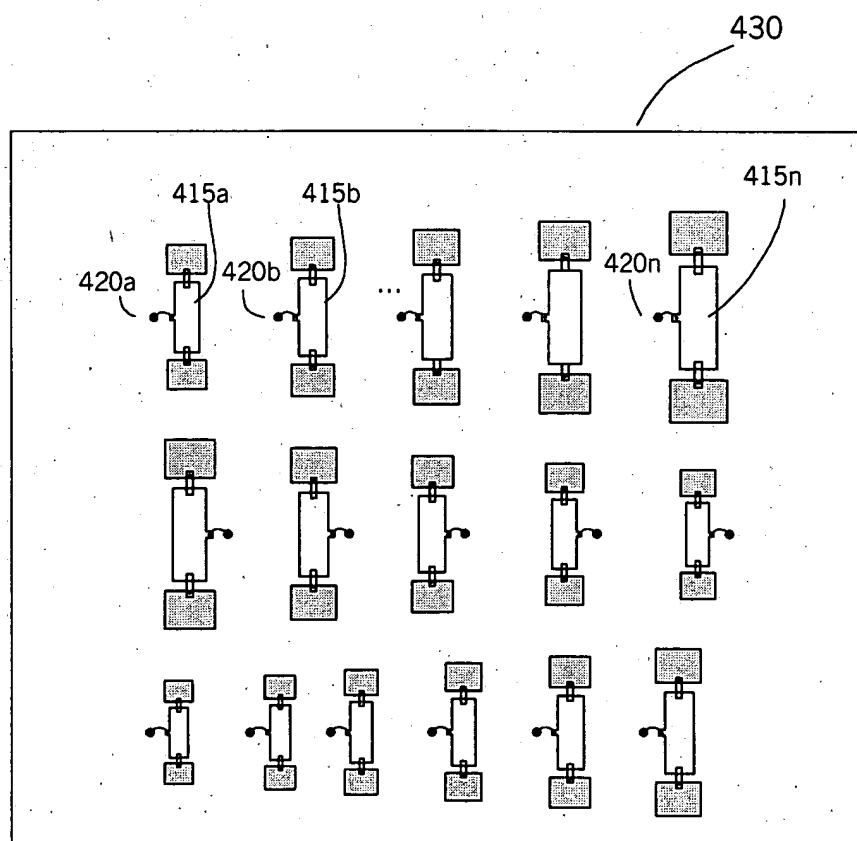


FIGURE 12b

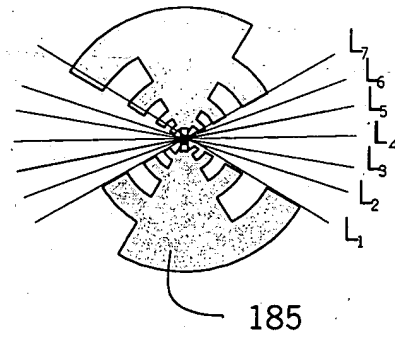


FIGURE 12a

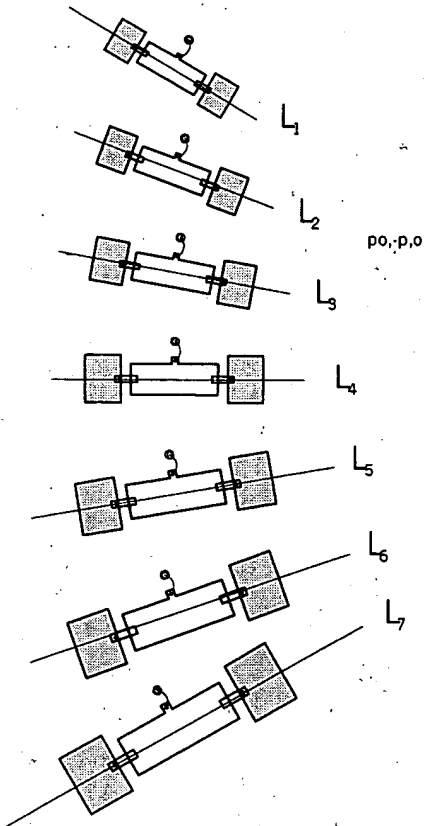


FIGURE 12c

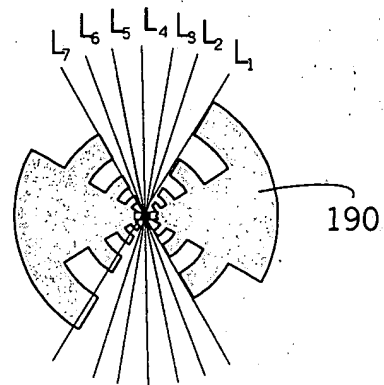


FIGURE 13

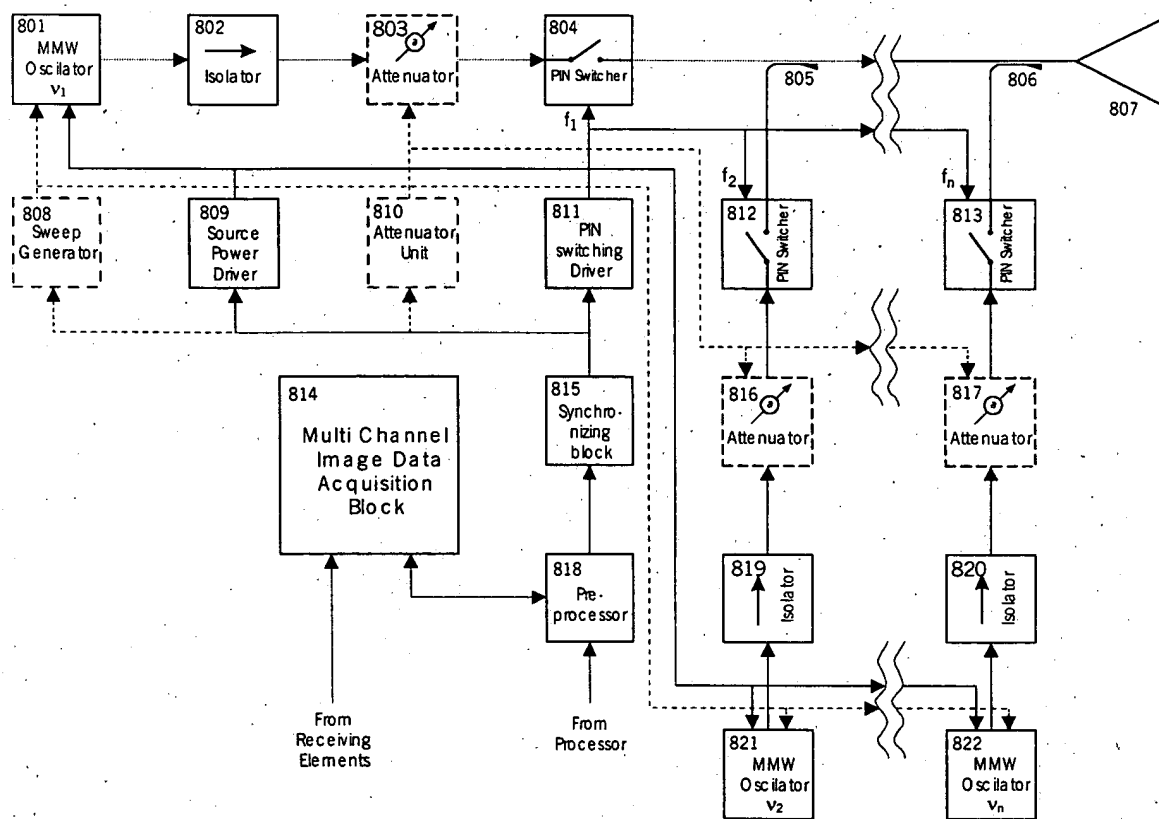


FIGURE 14a

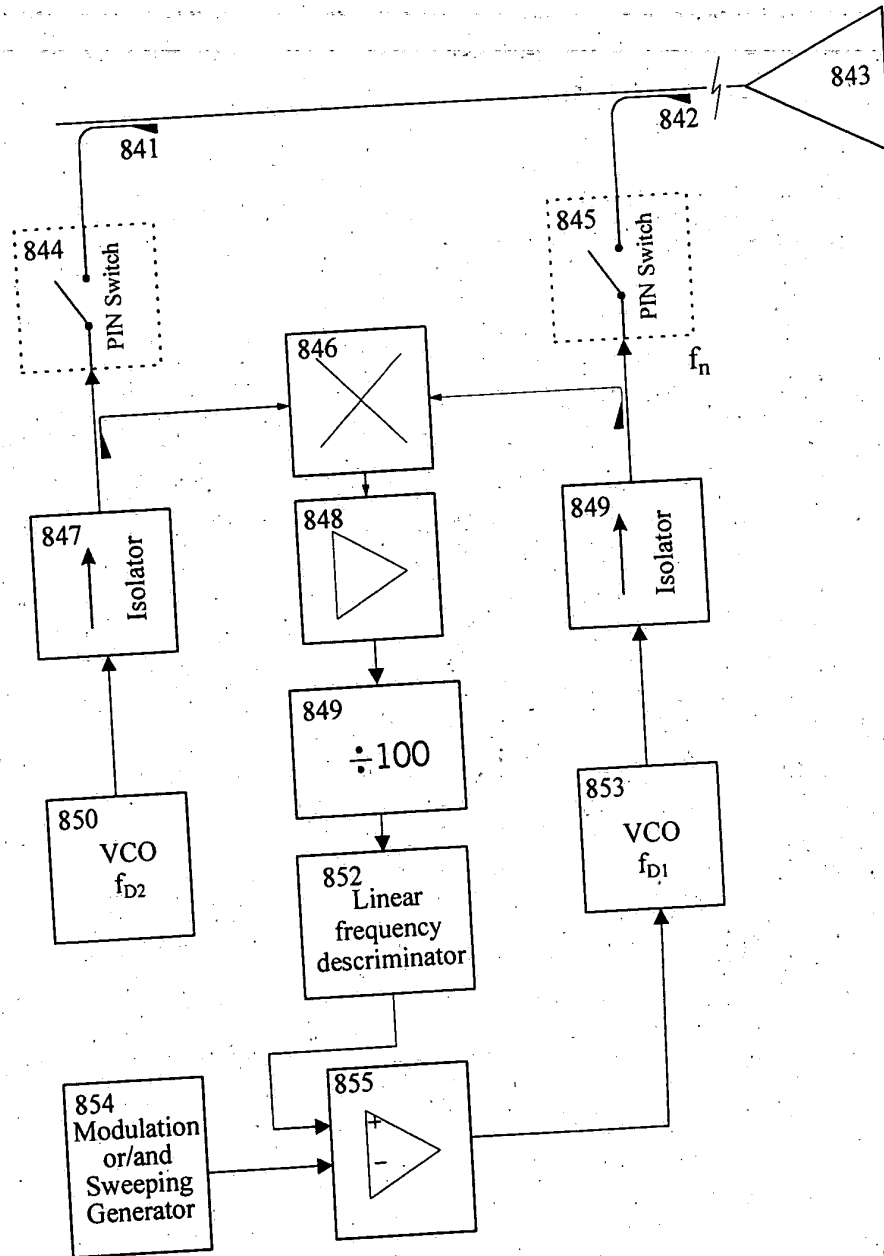




FIGURE 14b

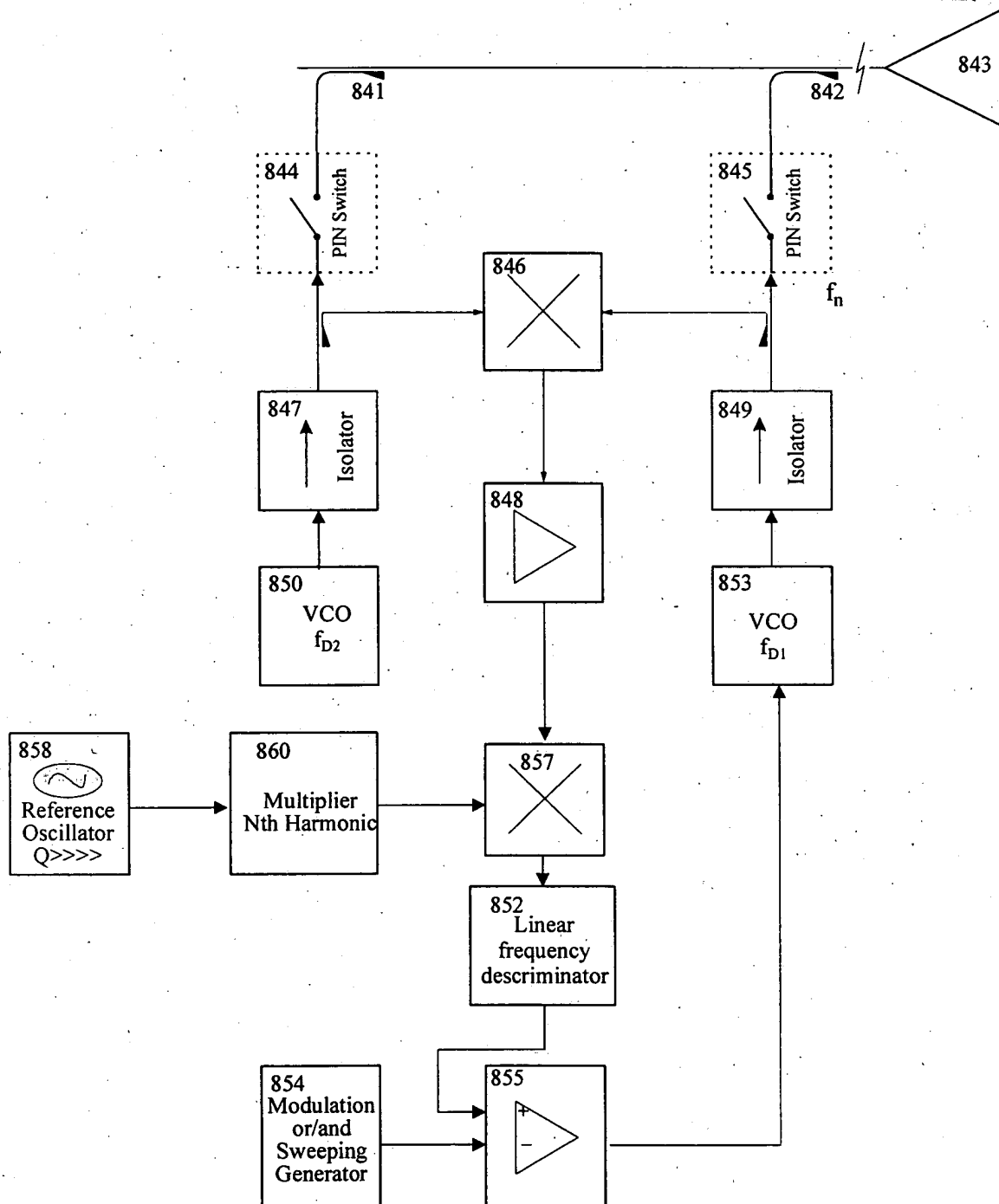


FIGURE 15

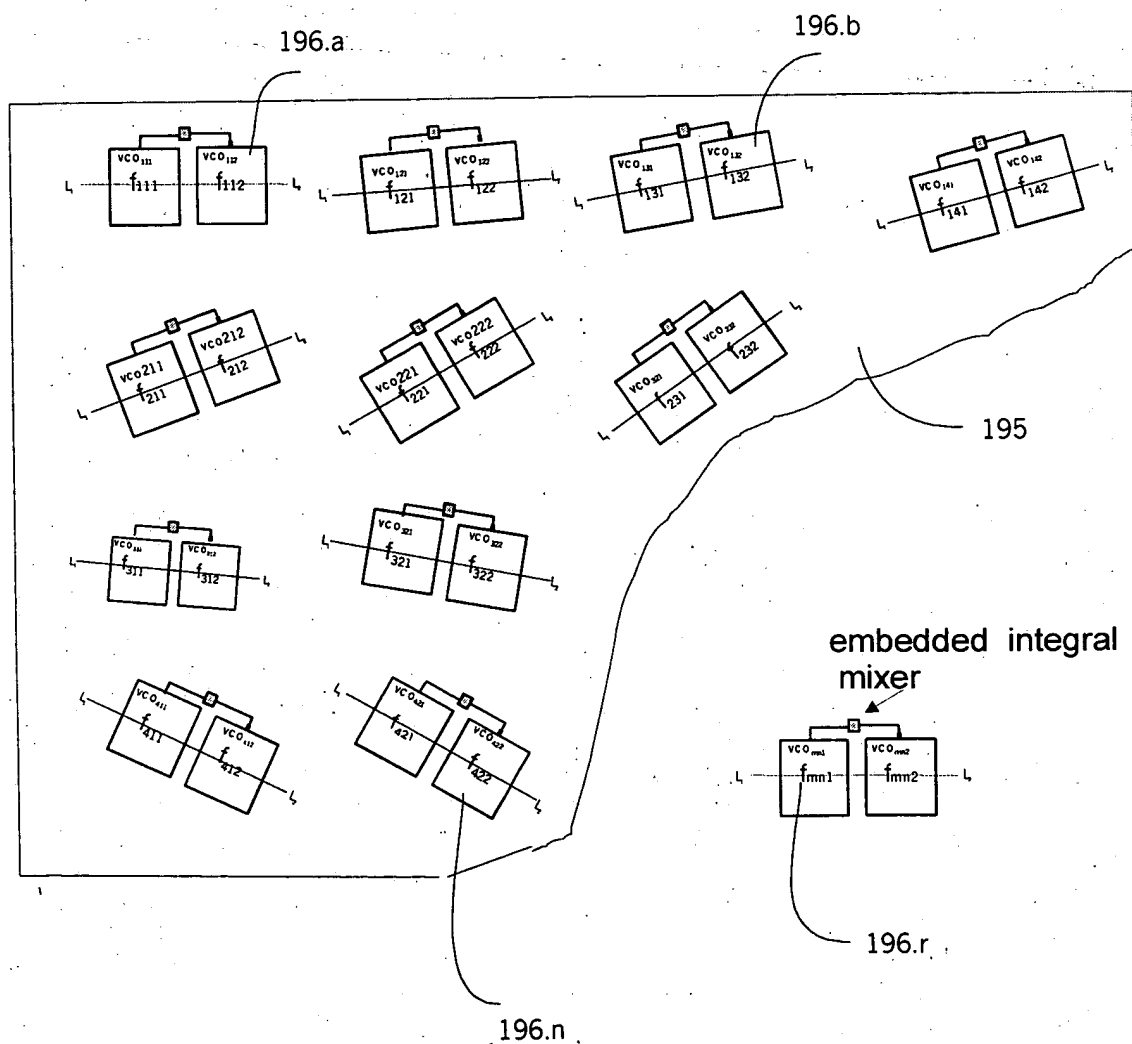


FIGURE 16

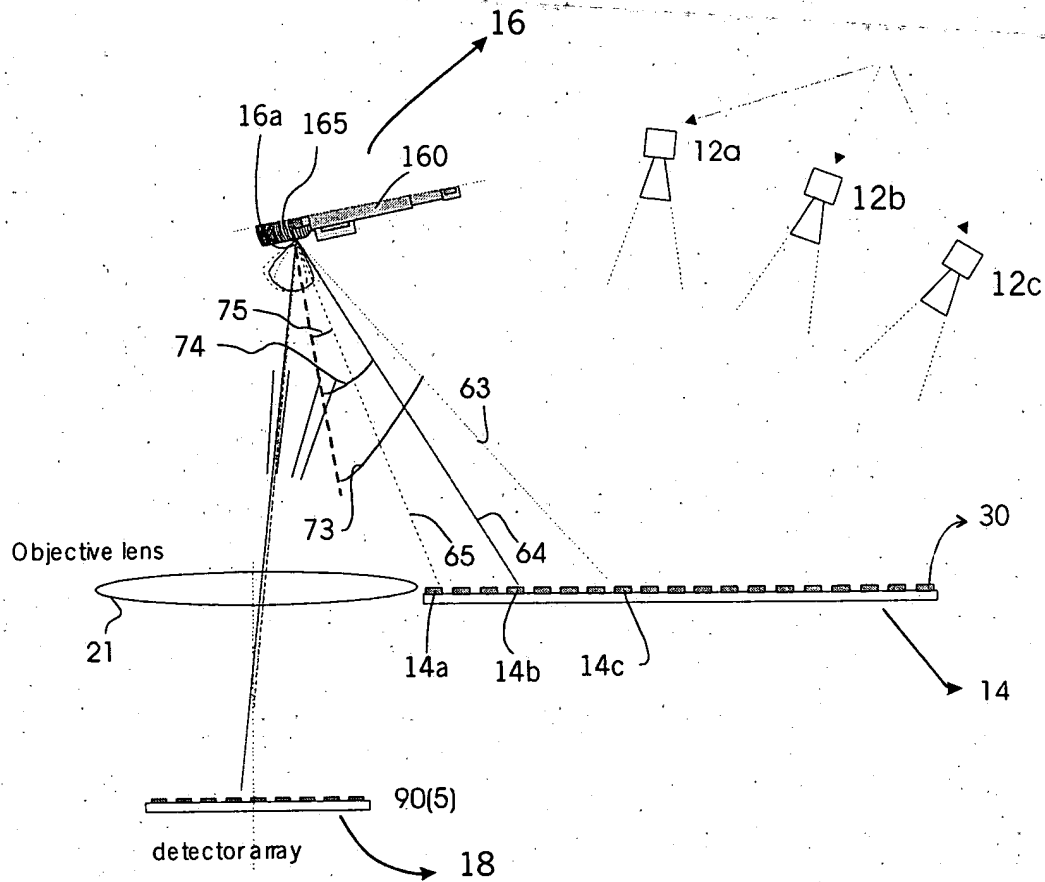


FIGURE 17a

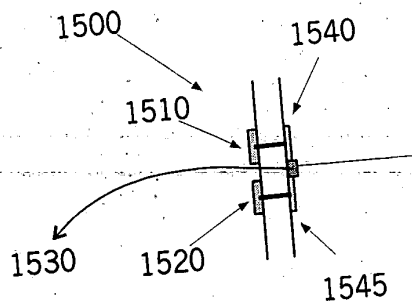


FIGURE 17b

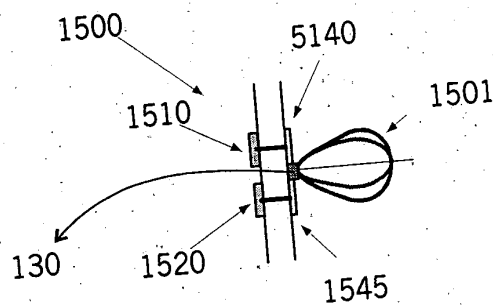


FIGURE 17c

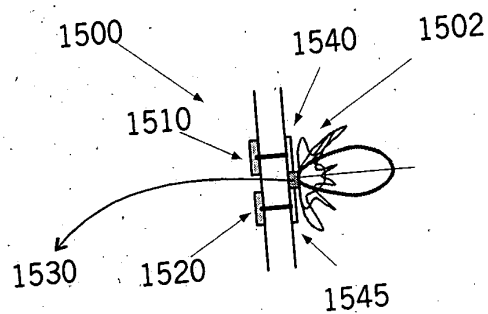


FIGURE 18a

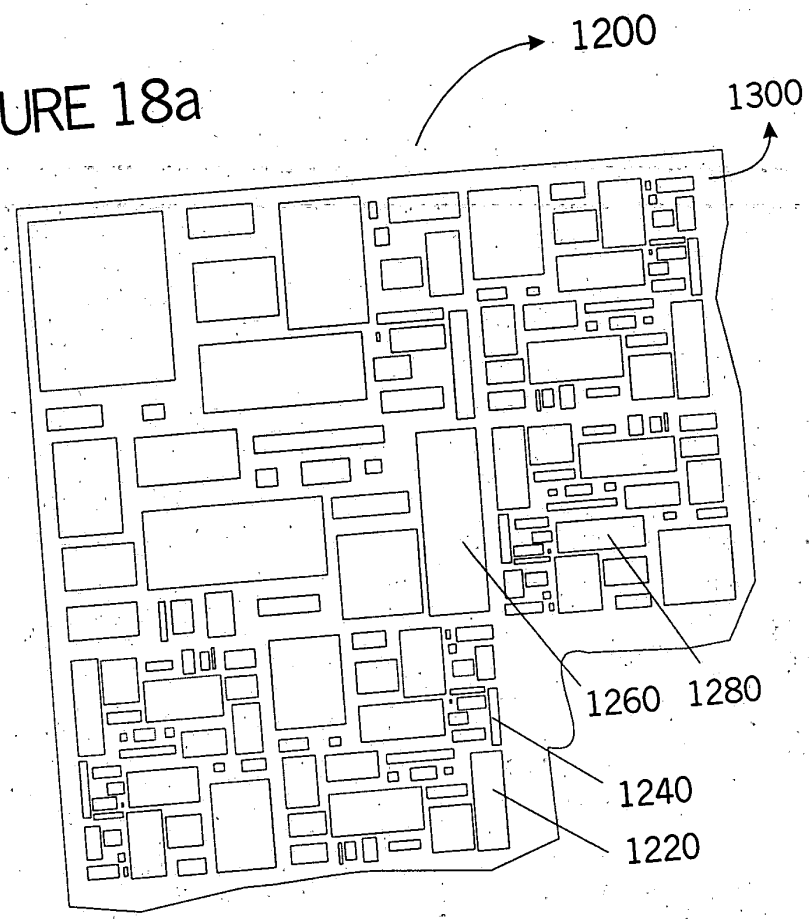


FIGURE 18b

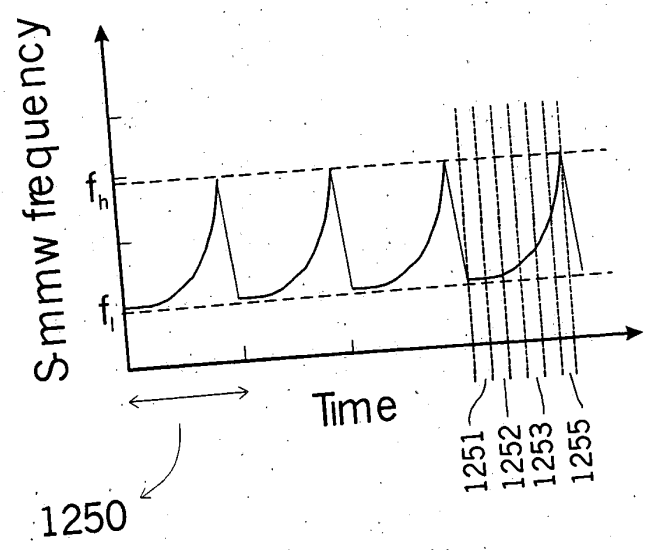


FIGURE 19a

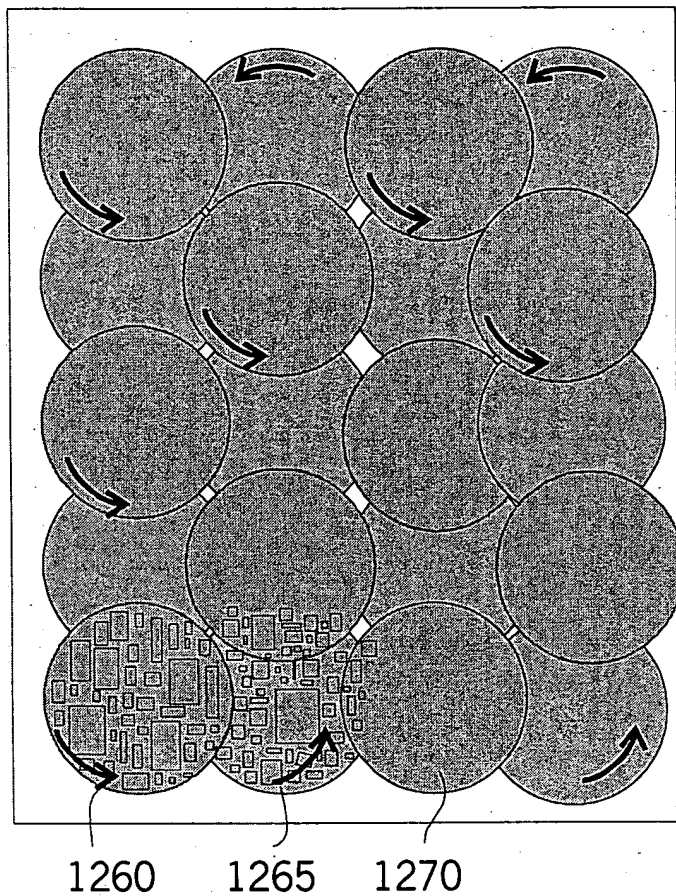


FIGURE 19b

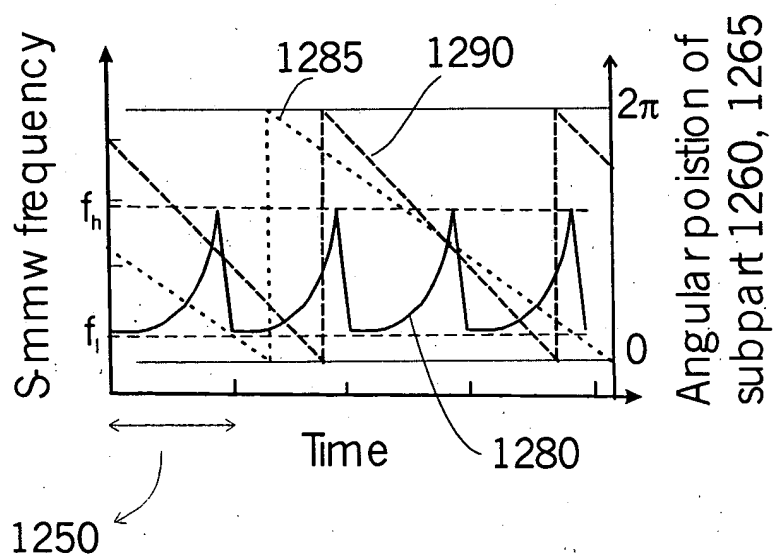


FIGURE 20a

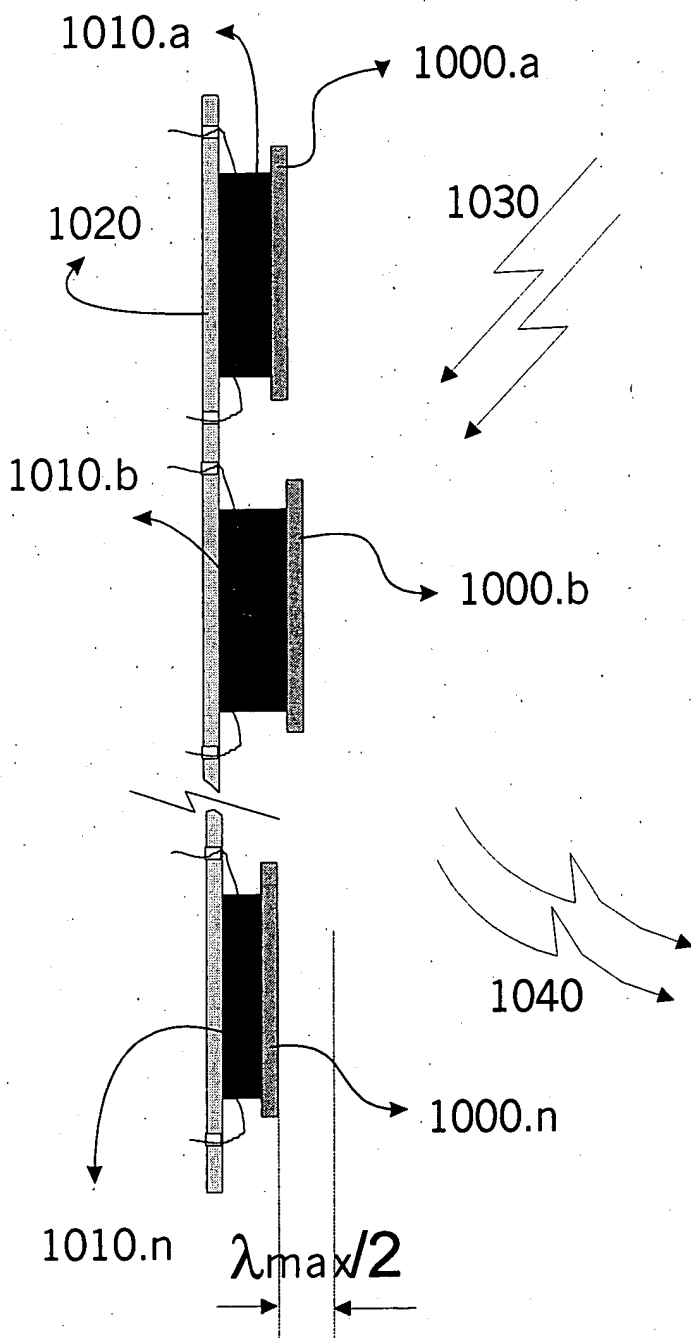


FIGURE 20b

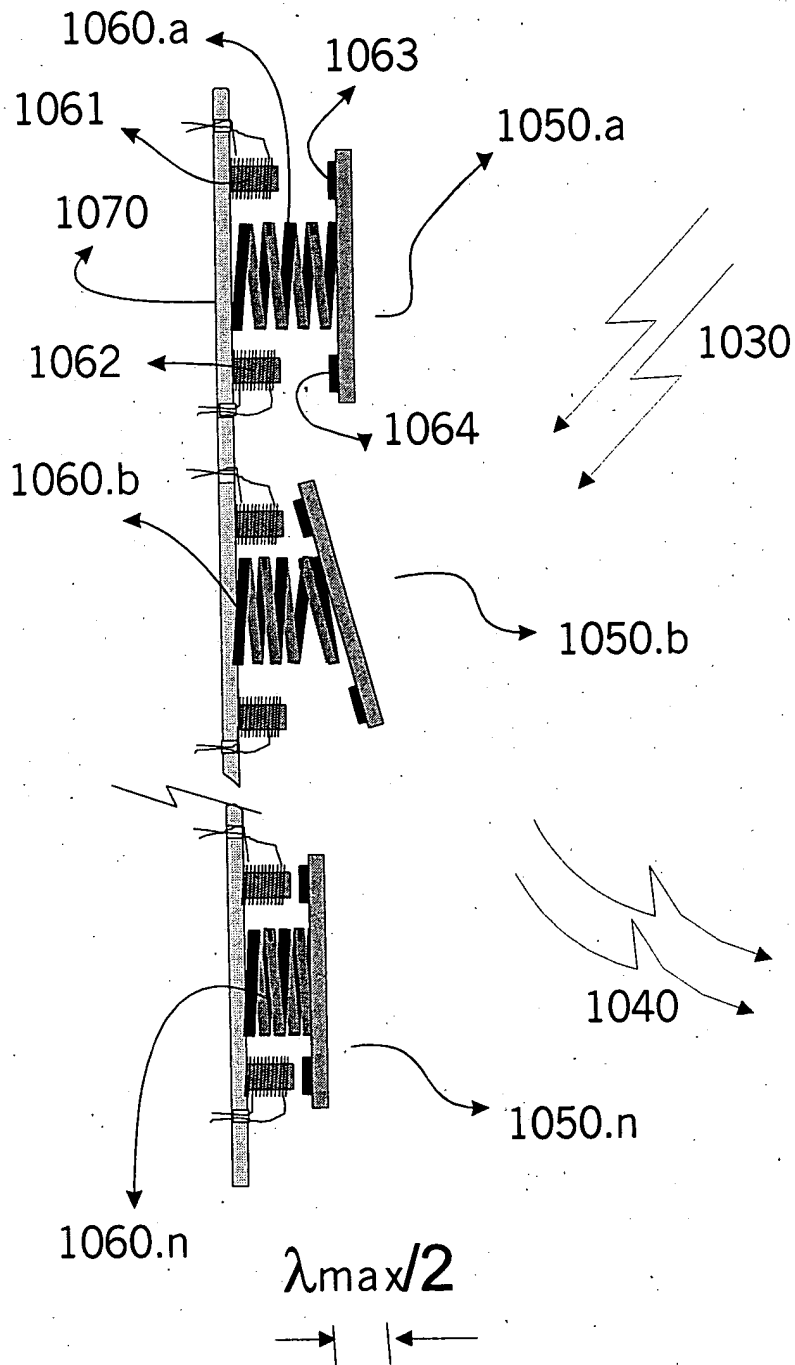




FIGURE 21

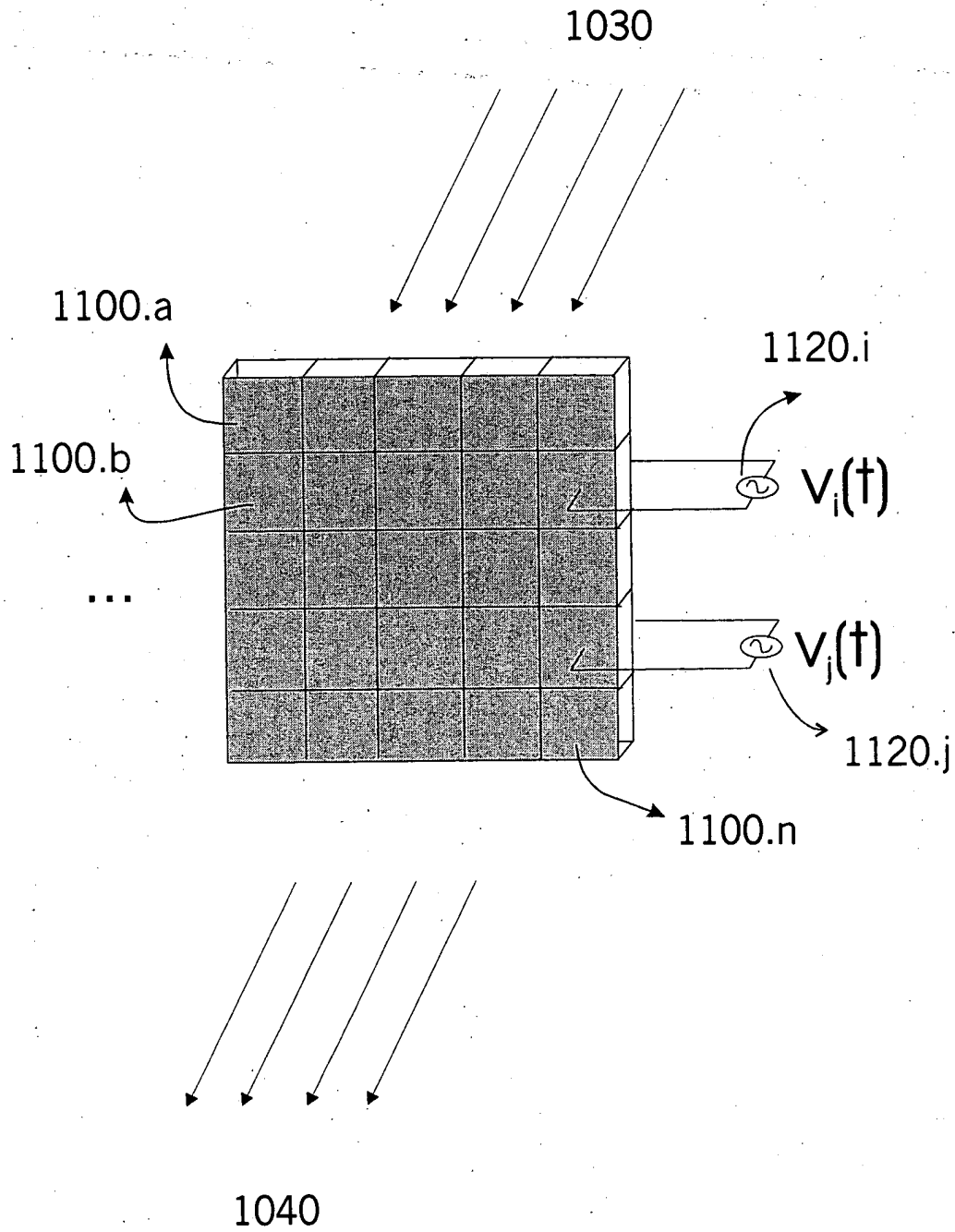
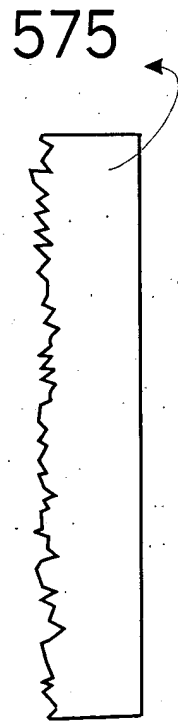


FIGURE 22

PRIOR ART



2000-2011

FIGURE 23a

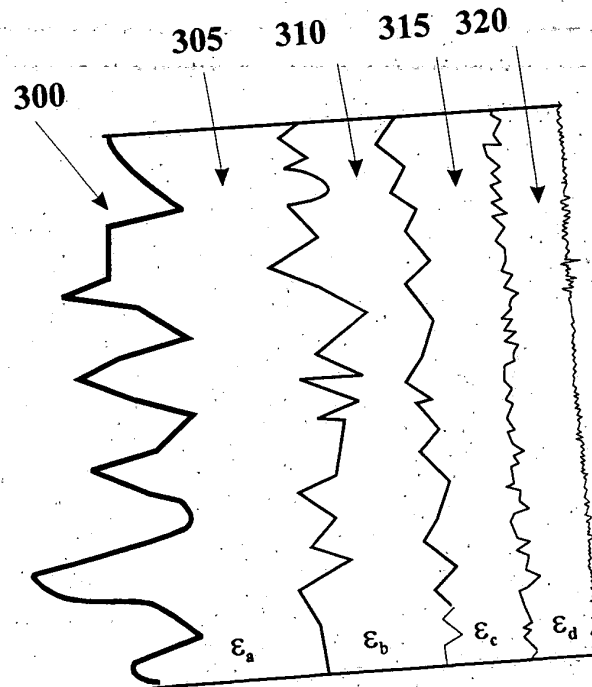


FIGURE 23b

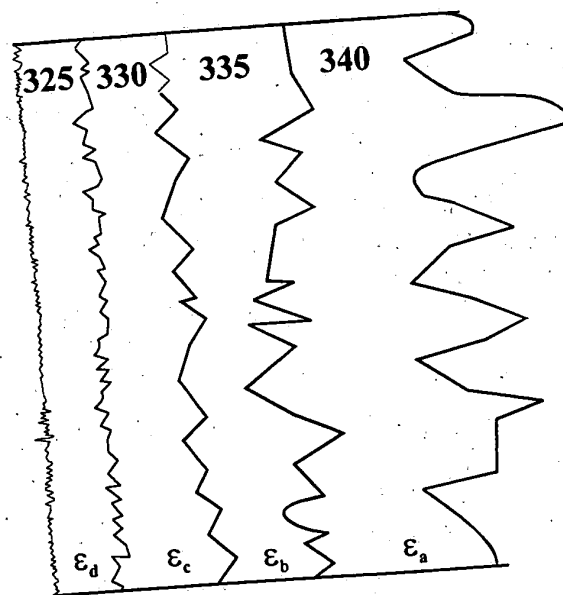


FIGURE 24

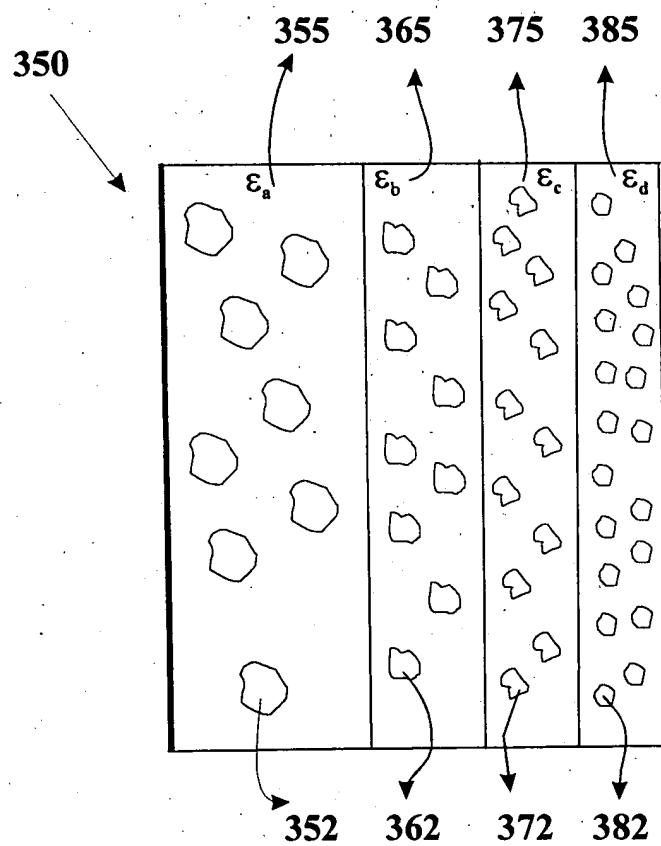


FIGURE 25a

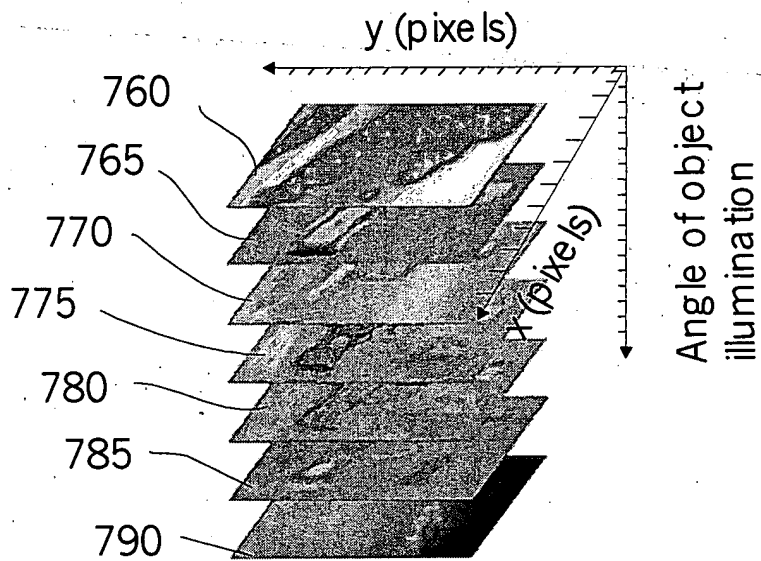


FIGURE 25b



800

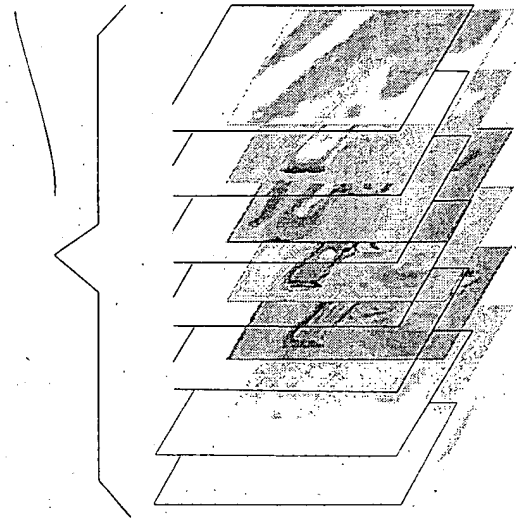
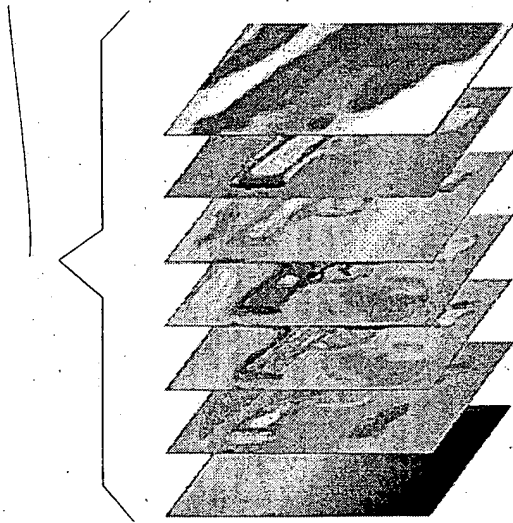
FIGURE 26

$f=f_1$

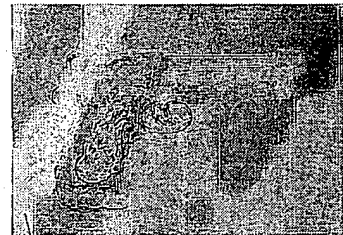
$f=f_2$

1310

1320



1315



1325

FIG URE 27.a

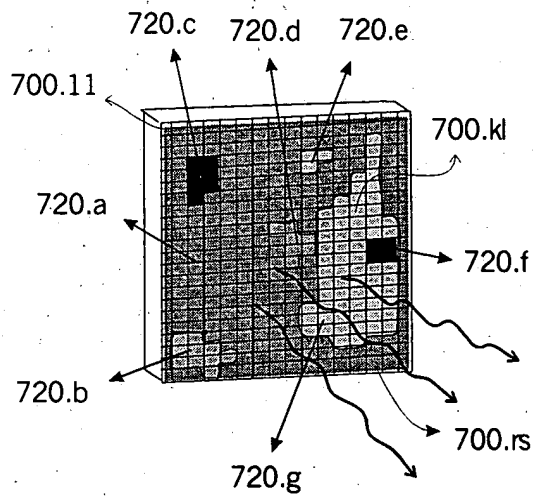


FIG URE 27.b

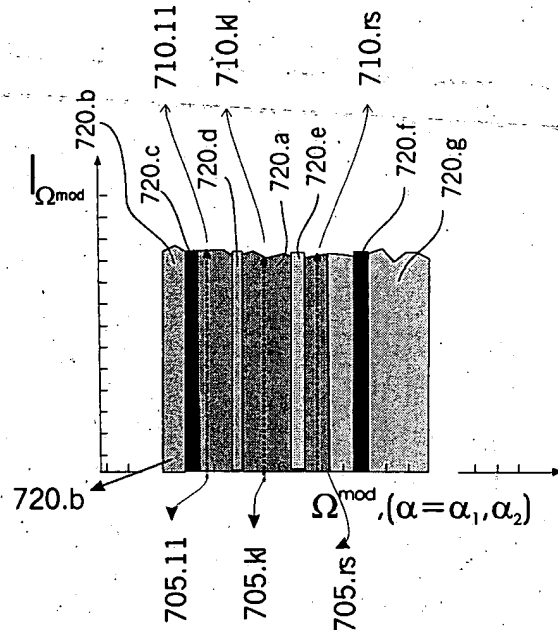


FIG URE 27.c  
 for pixel  $(x_{m0}, y_{n0})$

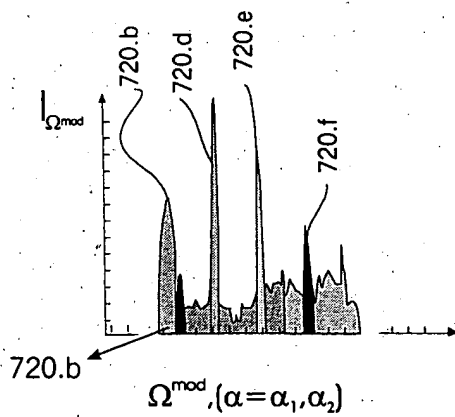


FIG URE 27.d  
 for whole array of pixels

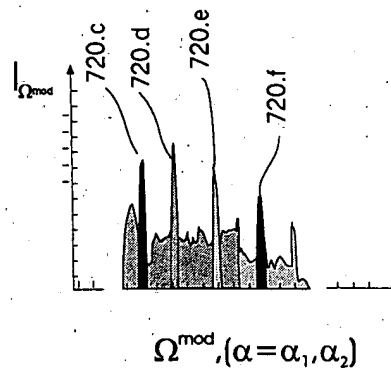


FIGURE 28a

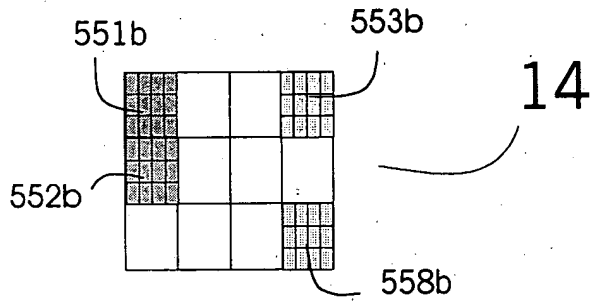


FIGURE 28b

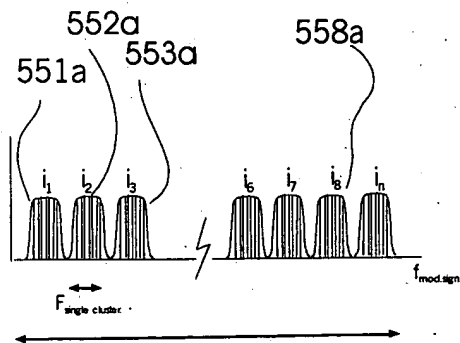




Figure 29

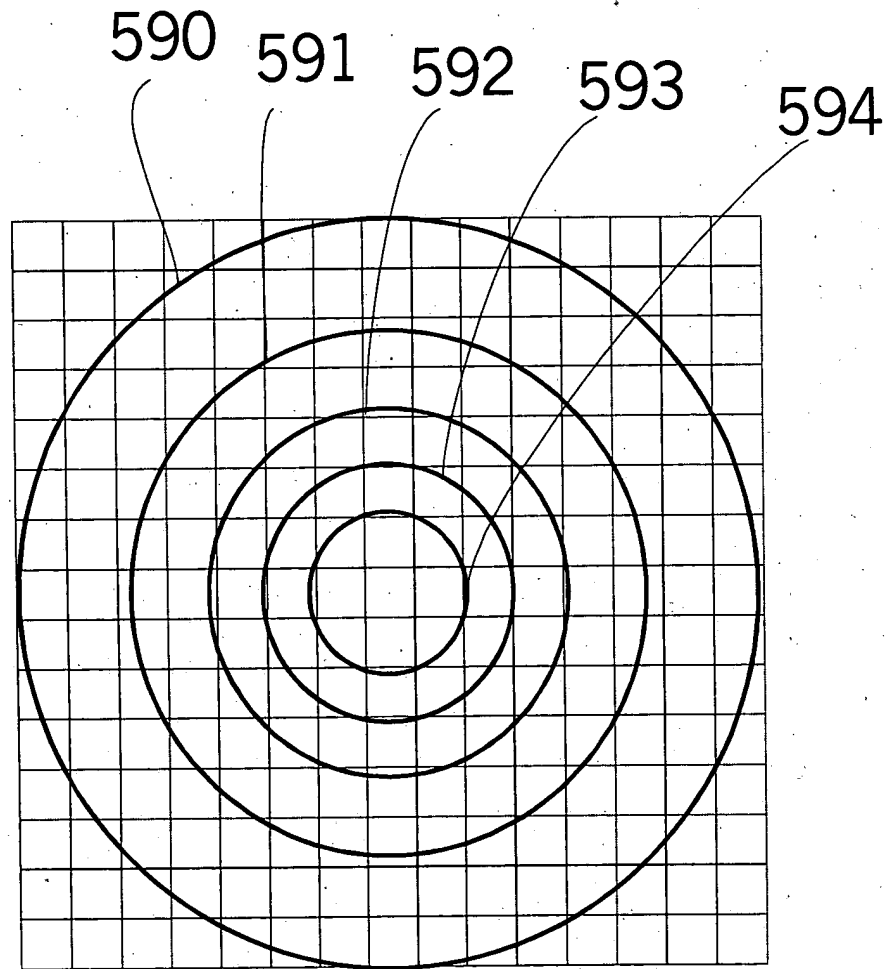


Figure 30

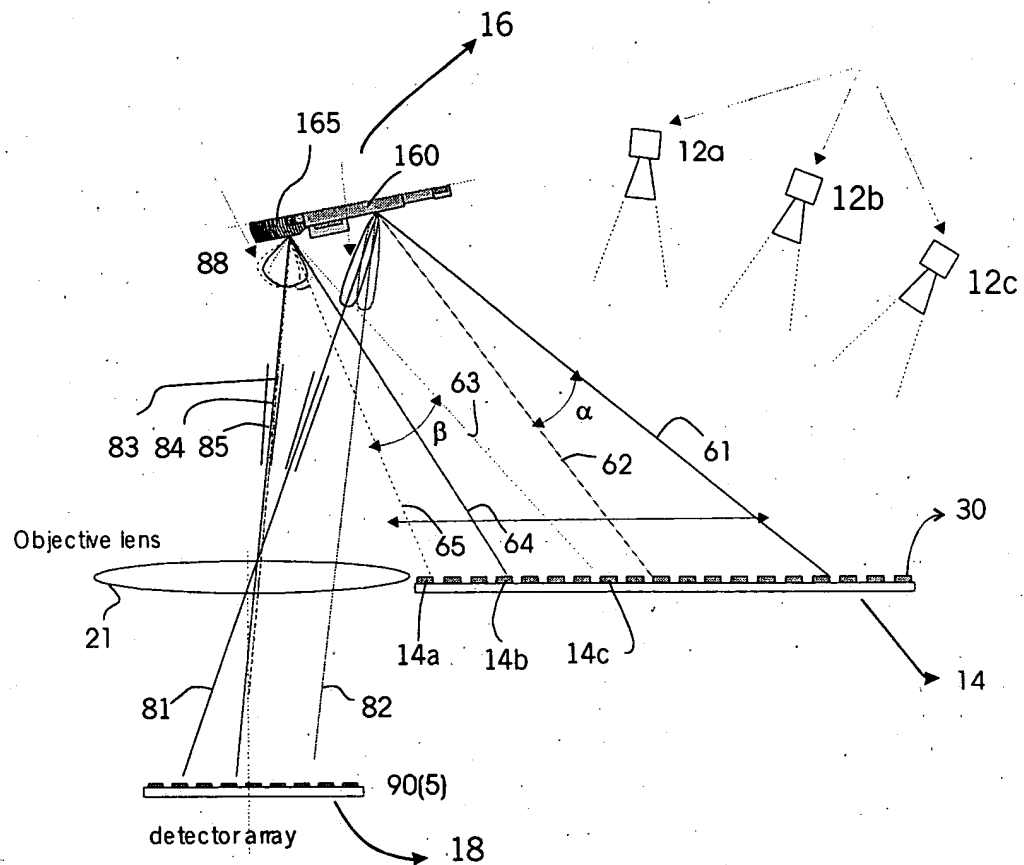
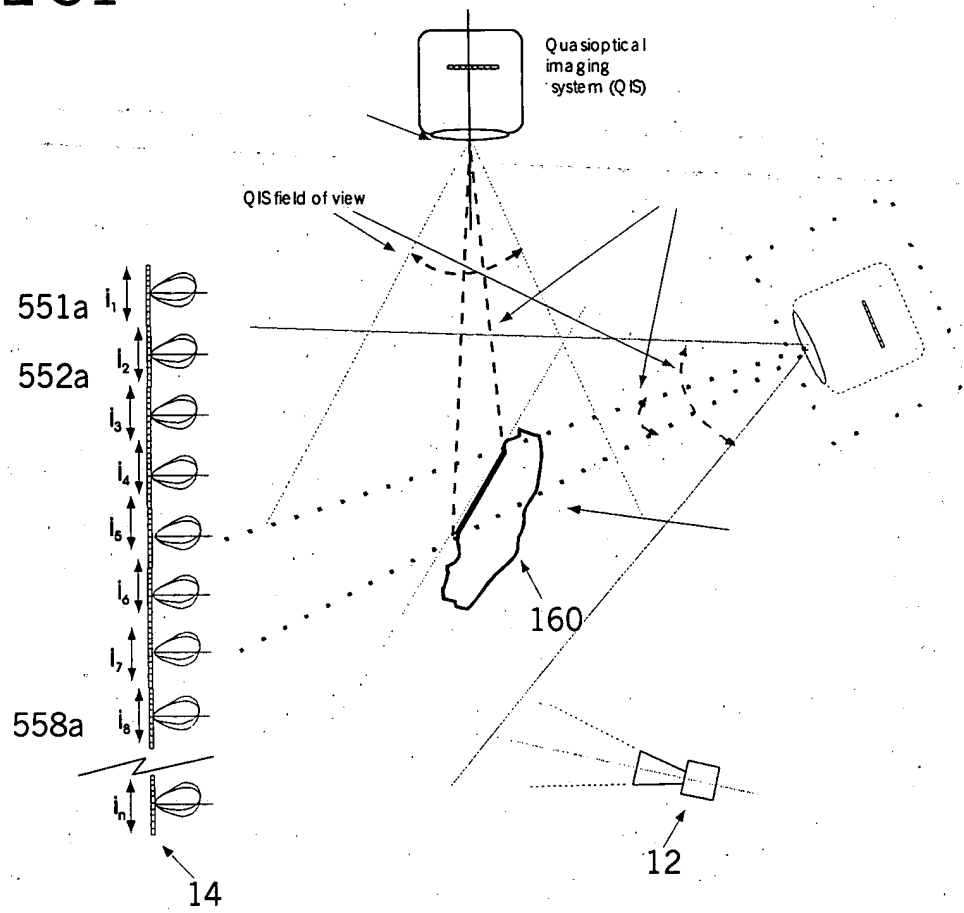


FIGURE 31



The figure contains two vertically stacked graphs. Both graphs have 'signal amplitude' on the vertical axis and 'Receiver Position' on the horizontal axis. The horizontal axis for both graphs has 11 tick marks, with the center being the 6th tick mark.

The top graph is labeled '560'. It shows a signal amplitude that is mostly flat and low, with a single, broad, smooth peak centered at the 6th tick mark. A line points from the number '560' to the peak.

The bottom graph is labeled '570'. It shows a signal amplitude that is mostly flat and low, but with several smaller, sharper peaks. The most prominent peak is at the 6th tick mark, and there are smaller peaks at the 4th and 8th tick marks. A line points from the number '570' to the central peak.

FIGURE 33

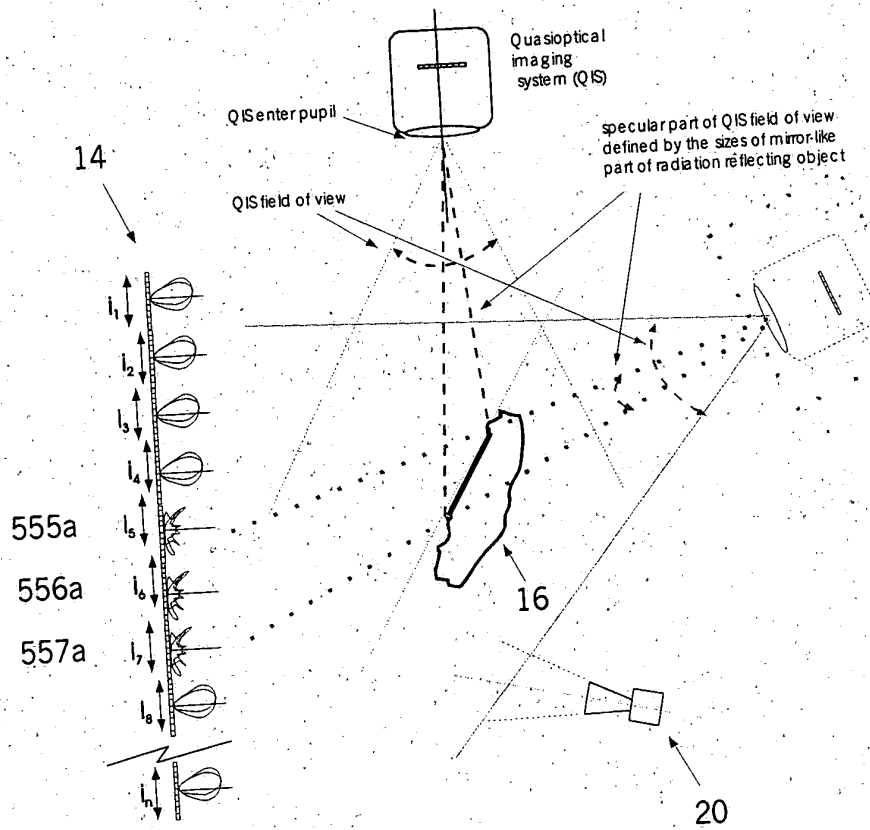


FIGURE 34

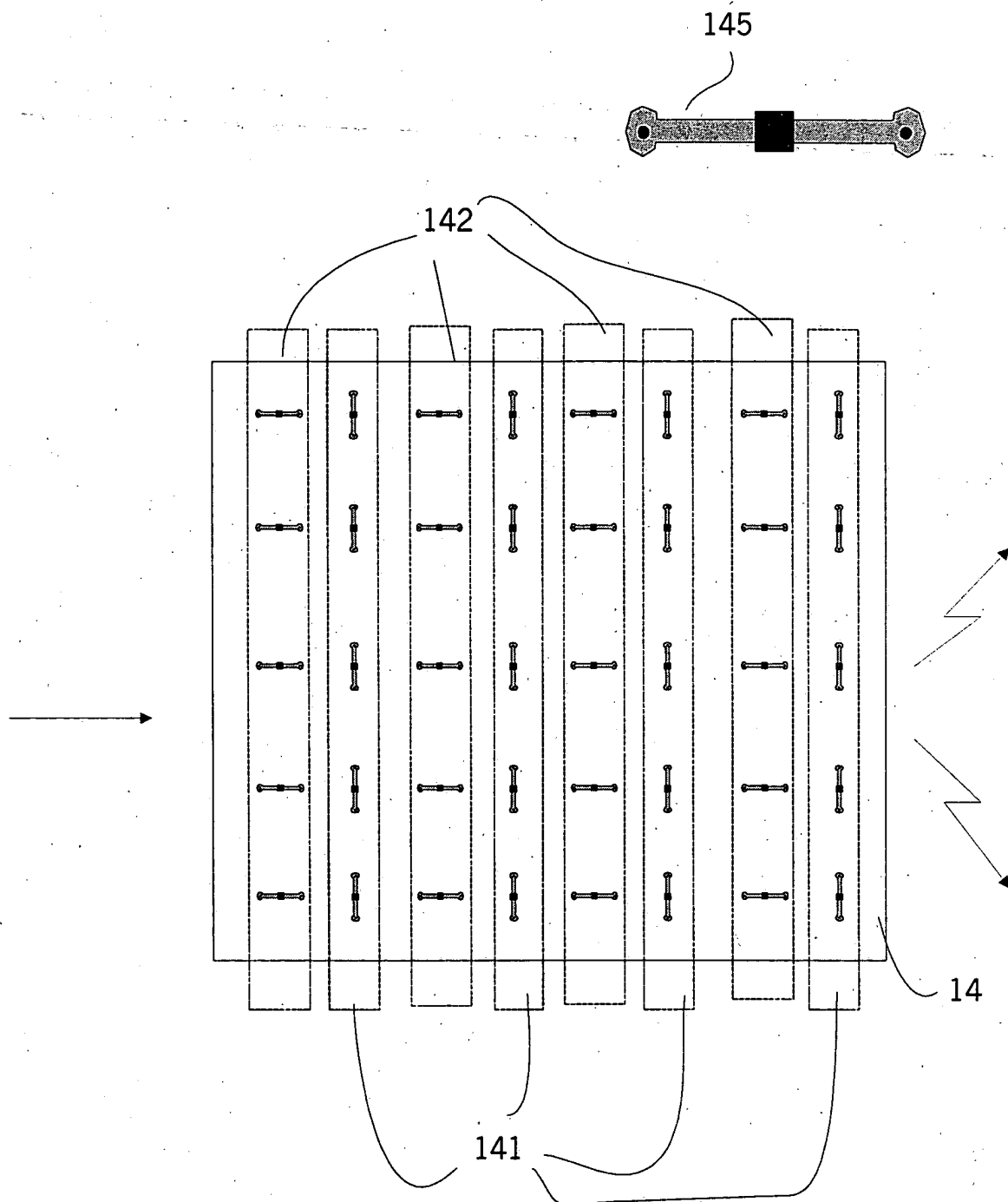


FIGURE 35

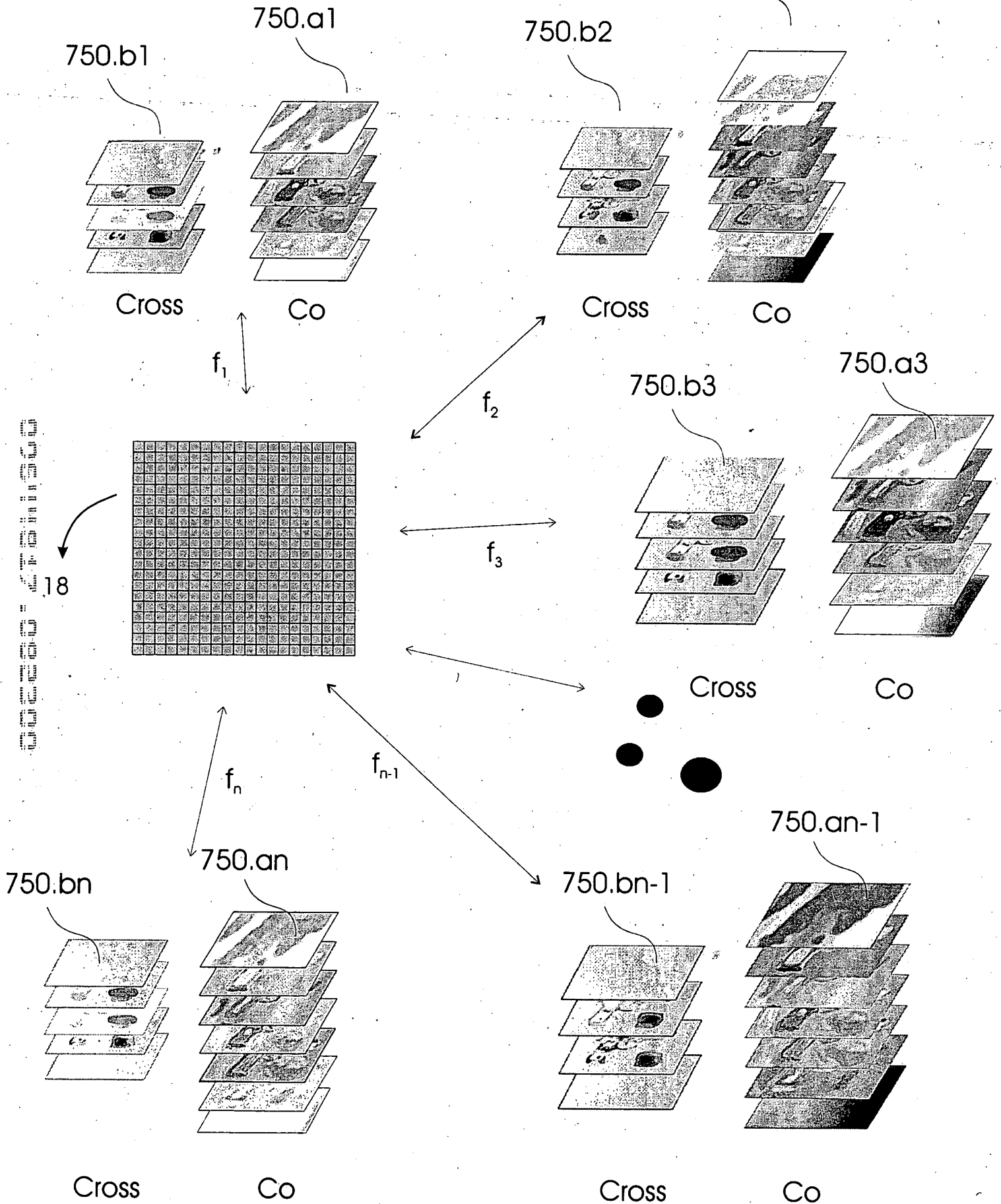


FIGURE 36a

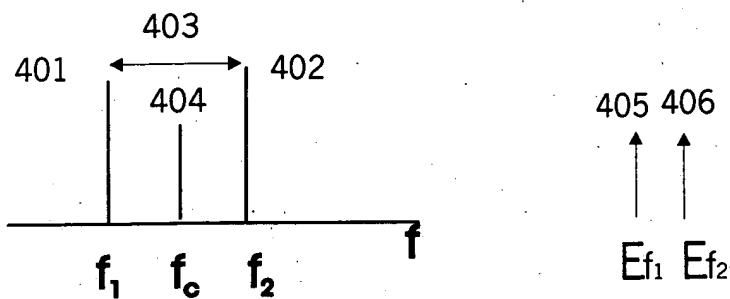


FIGURE 36b





FIGURE 37a

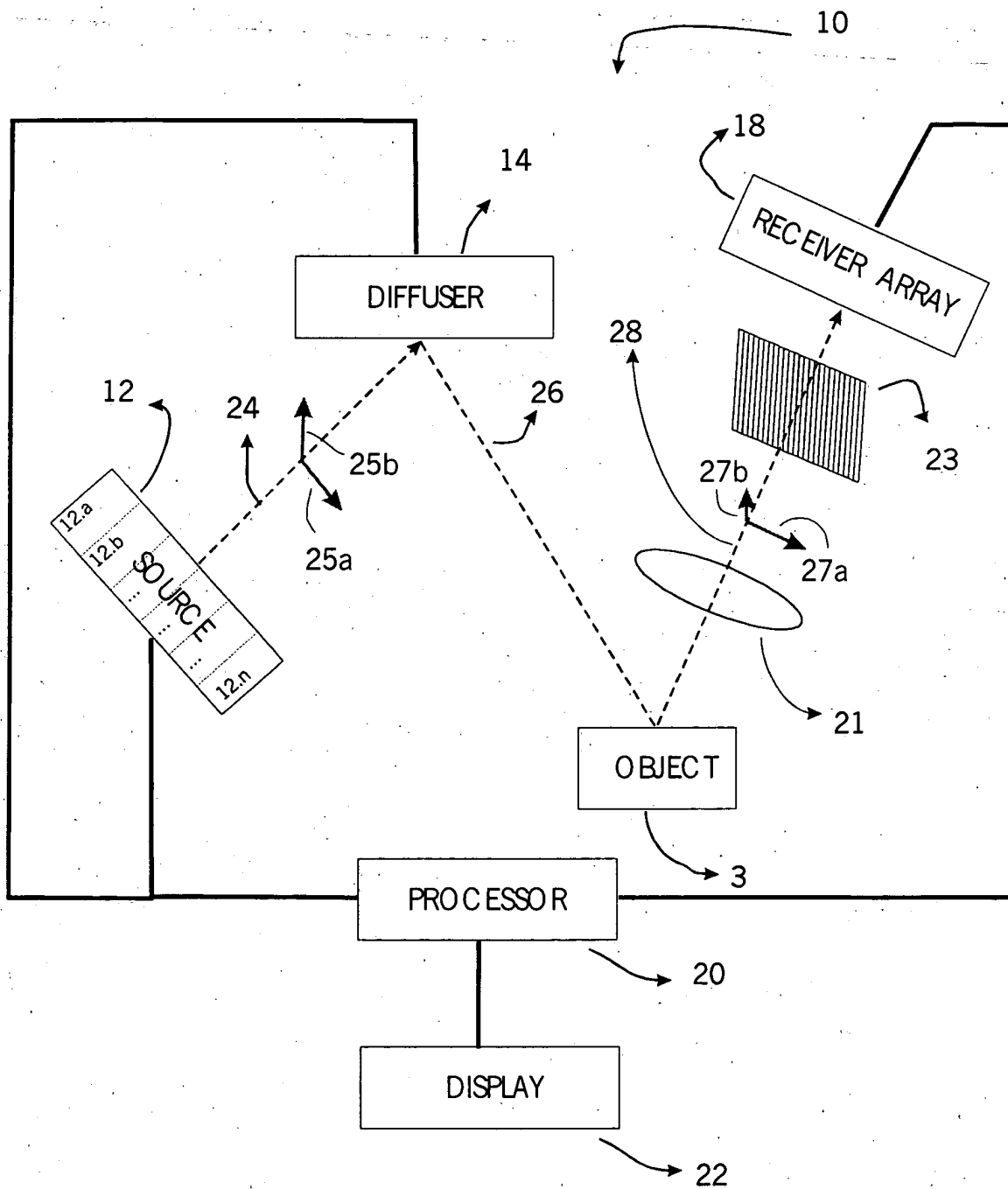


FIGURE 37b

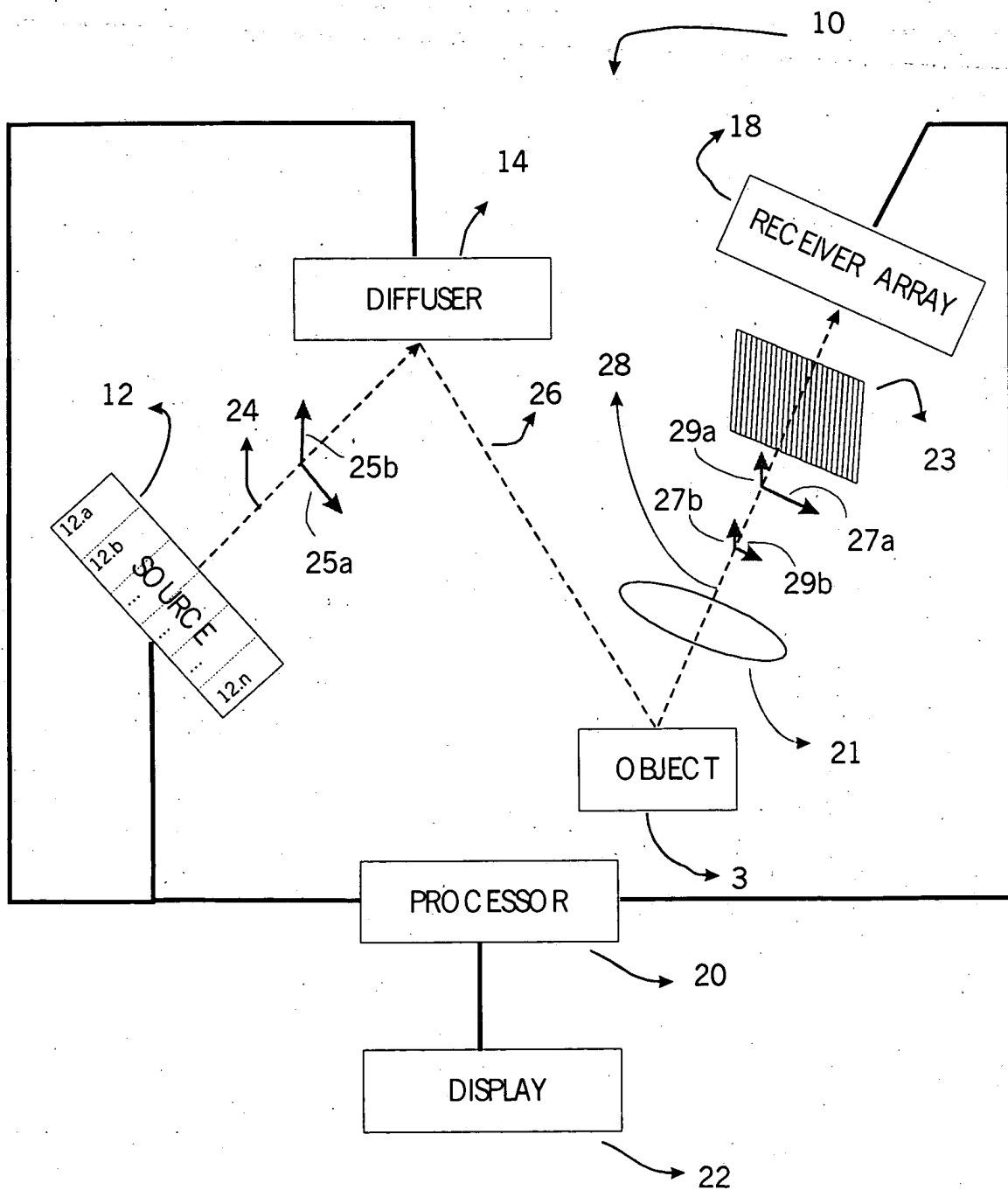


FIGURE 38

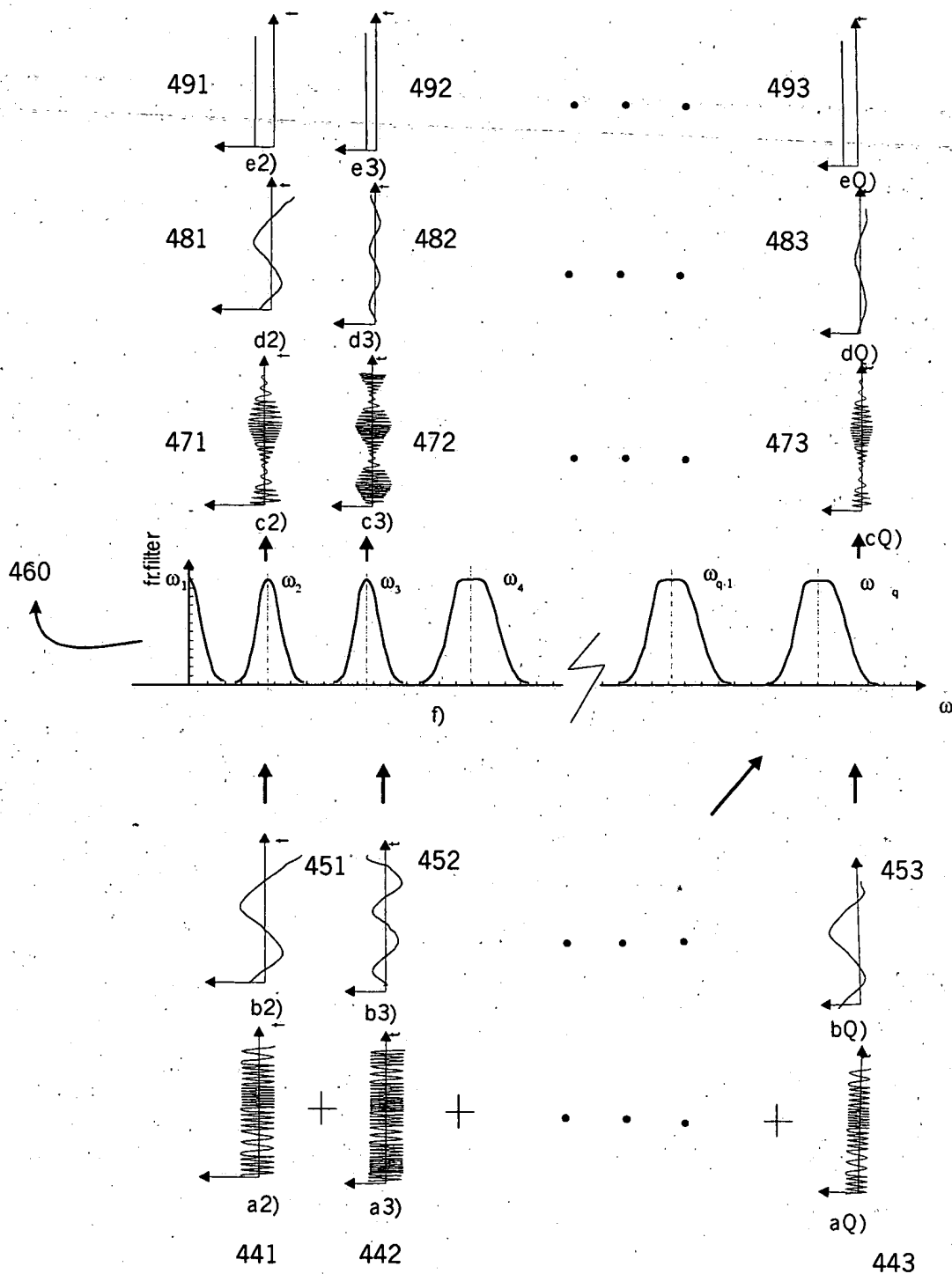


FIGURE 39

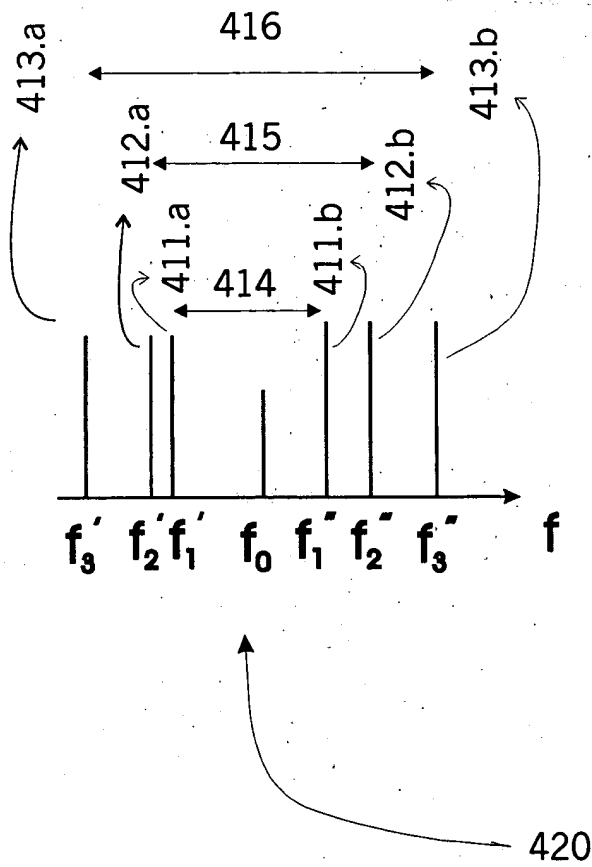
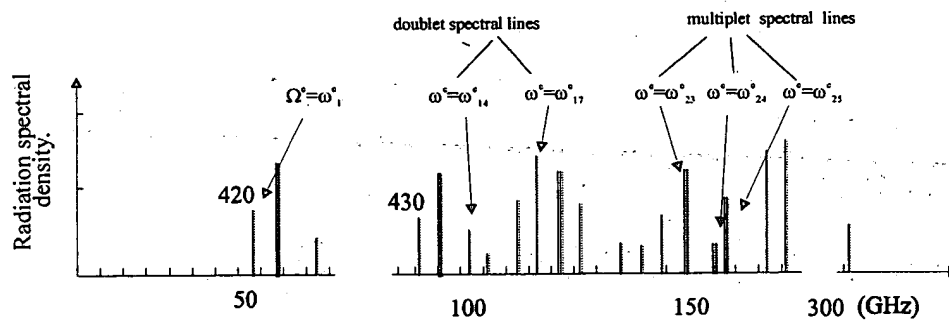


FIGURE 40a



$n_1=1$ $\omega_{d1,1} \neq 0$	$n_{14}=1$ $\omega_{d14,1} = 0$	$n_{24}=3$ $\omega_{d24} = \omega_{d24,1} = \omega_{d24,2} = \omega_{d24,3} = 0$
-----------------------------------	------------------------------------	---

Figure 40b

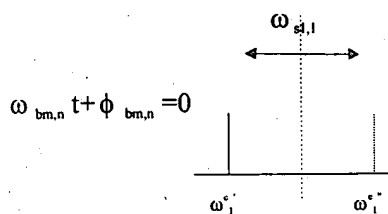


Figure 40d

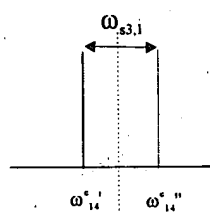


Figure 40f

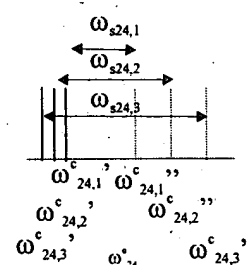


Figure 40c

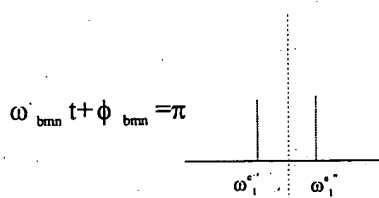


Figure 40e

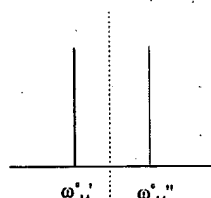
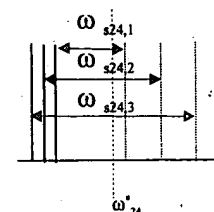


Figure 40g



c)

e)

g).

$$\omega_{bm,n} = \omega_{m,n}^c - \omega_{m,n}^s = \omega_{sm,n} + \omega_{dm,n} \cos(\omega_{m,n} t + \phi_{m,n})$$

FIG URE 41a

# Beat spectrum

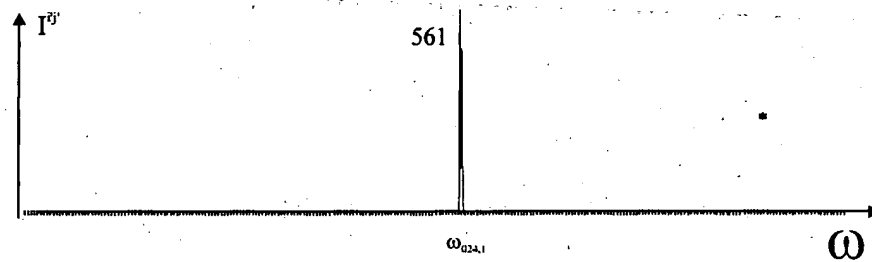


FIG URE 41b

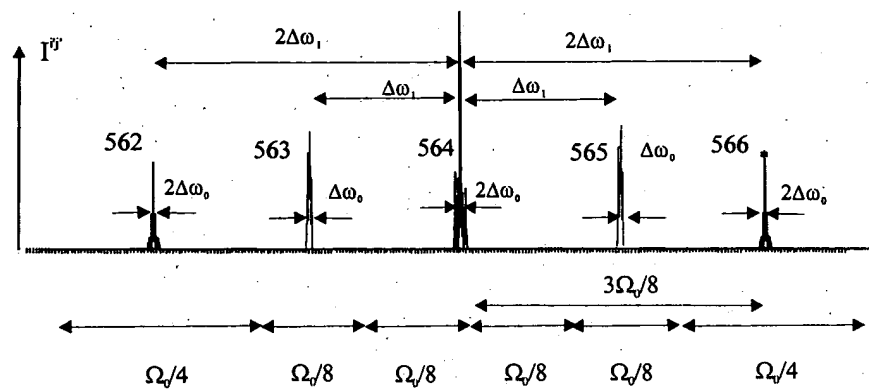


FIG URE 41c

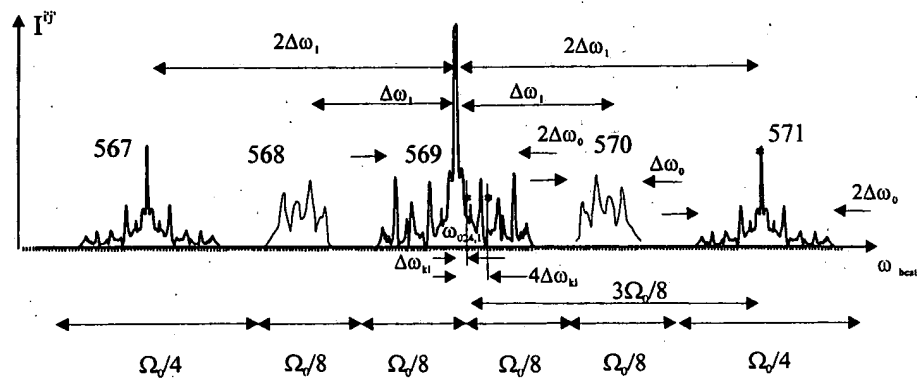


FIG URE 42a

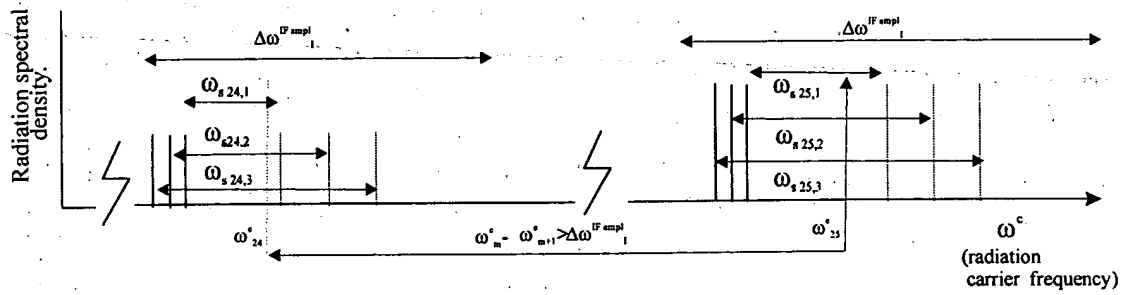
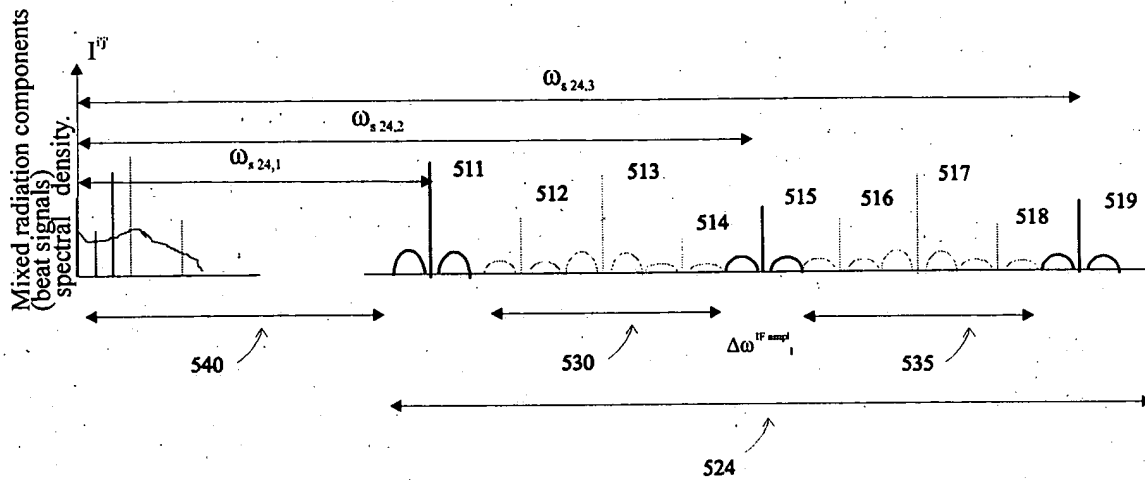


FIG URE 42b



b)

FIGURE 43

870

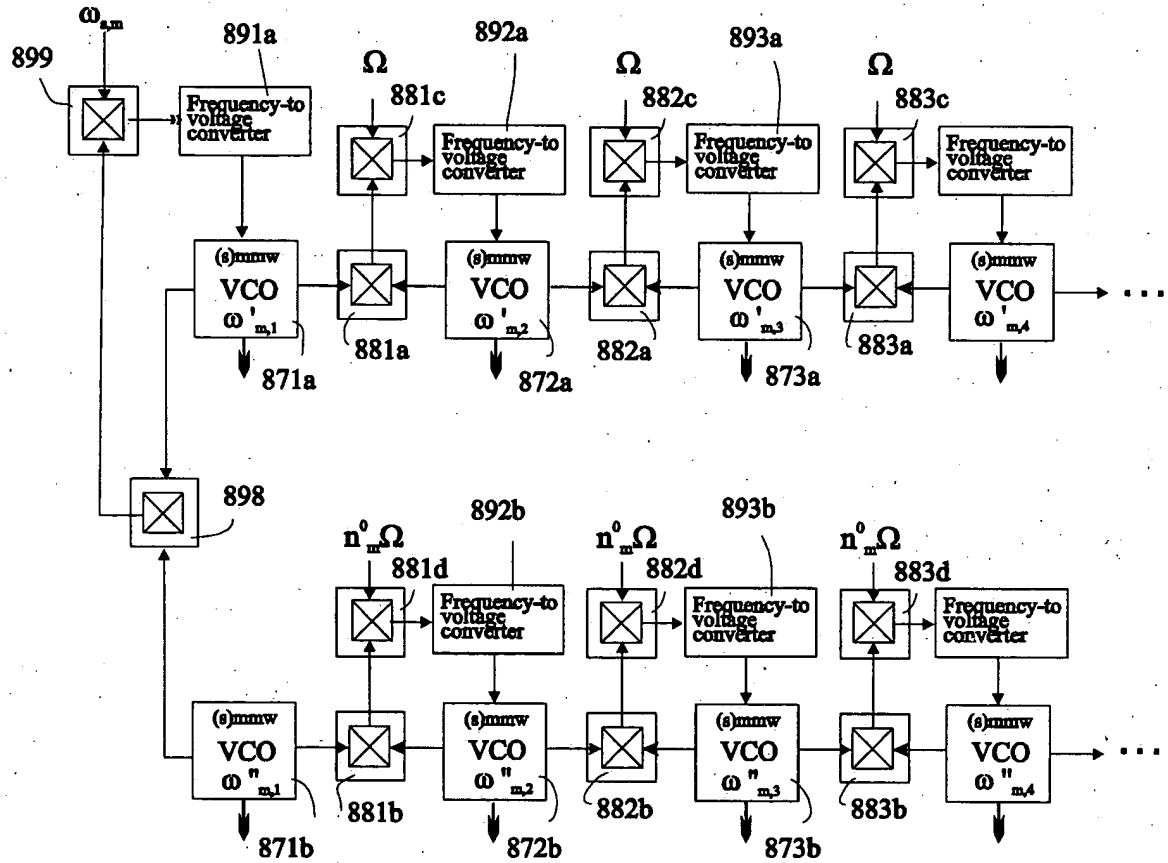




FIGURE 44

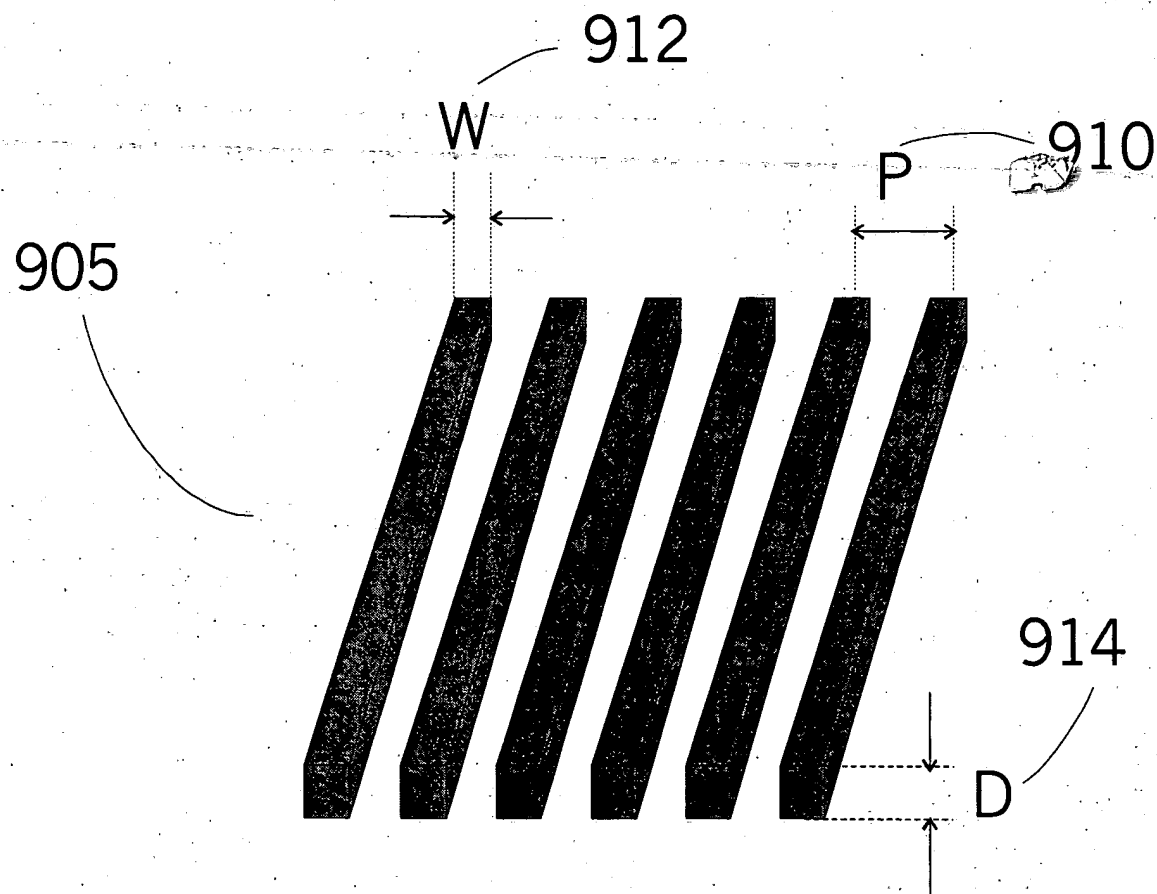


FIGURE 45a

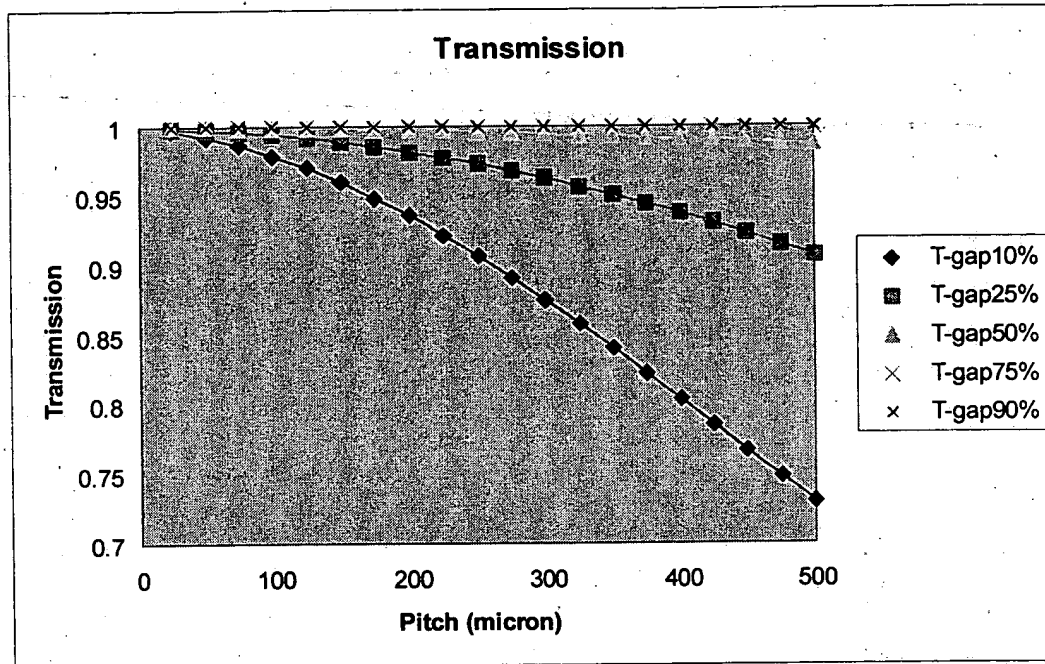


FIGURE 45b

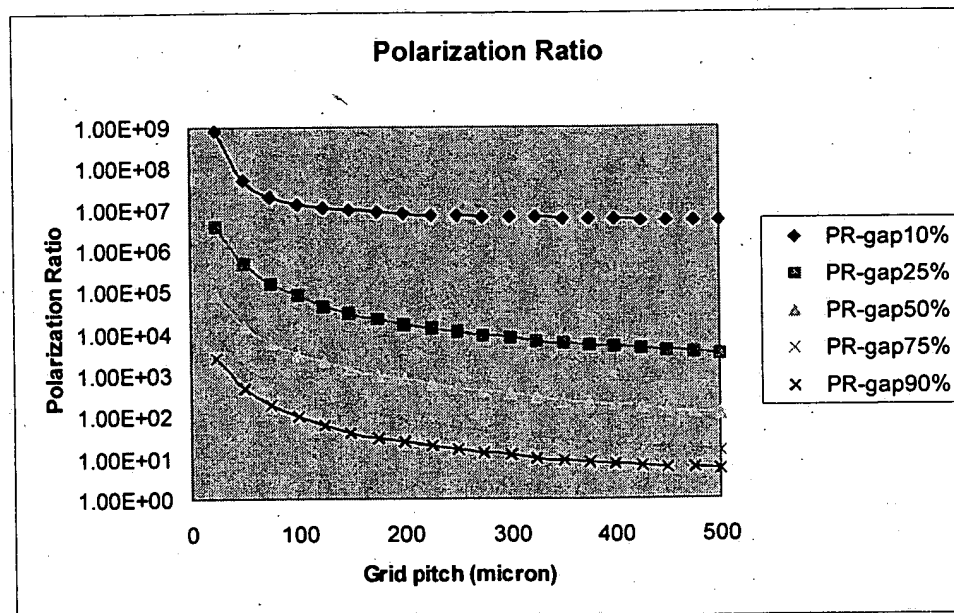


FIGURE 46a

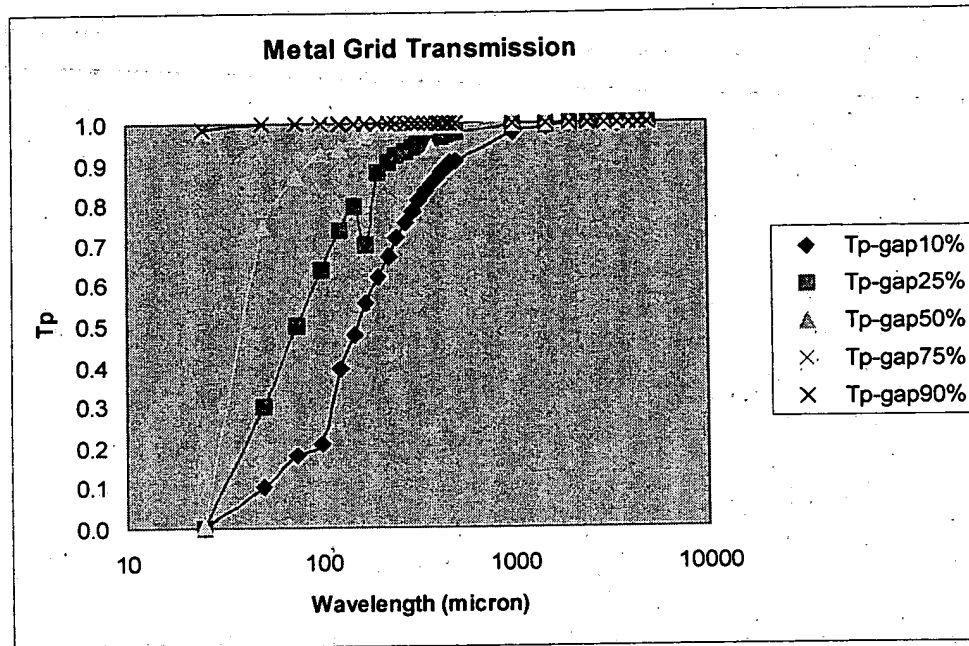


FIGURE 46b

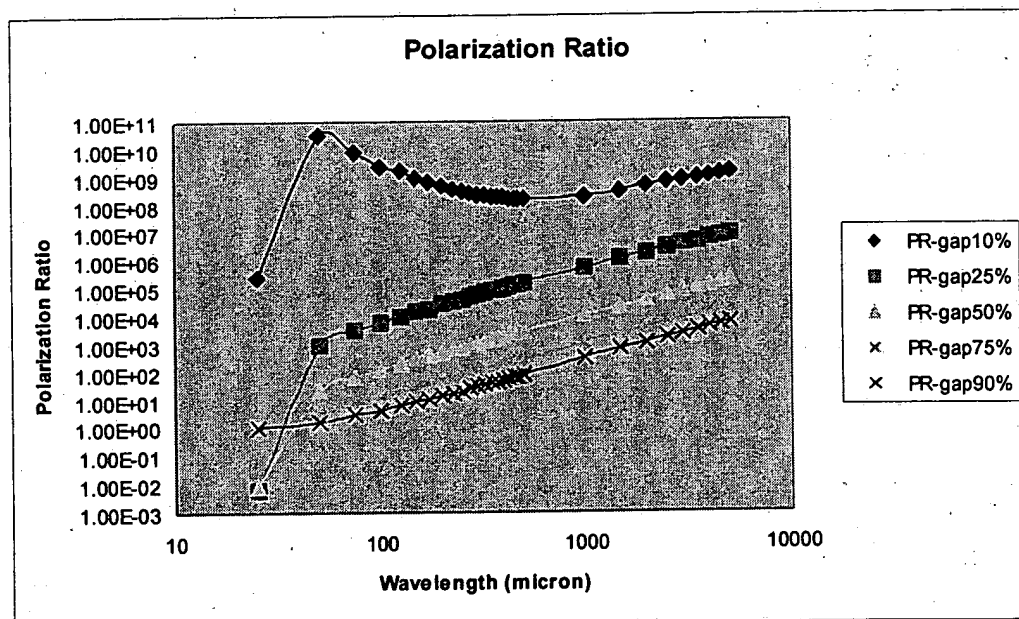


FIGURE 47

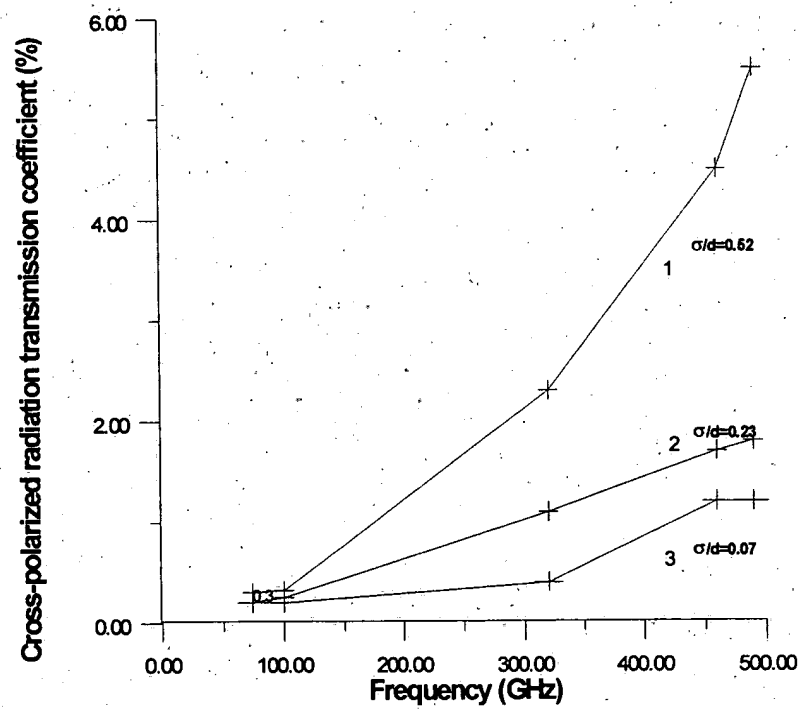


FIGURE 48a

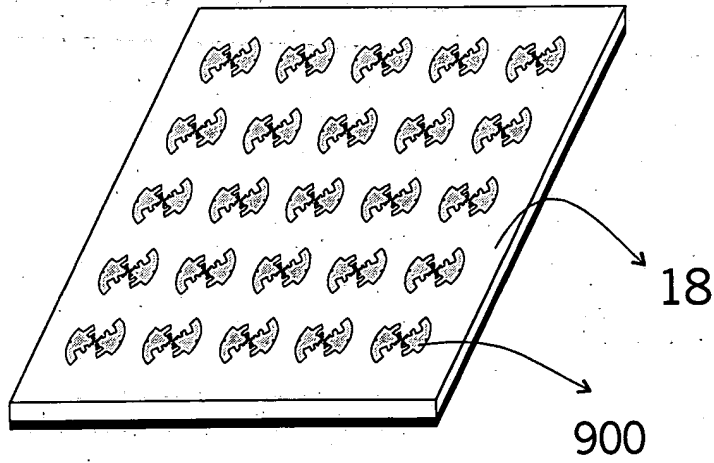


FIGURE 48b

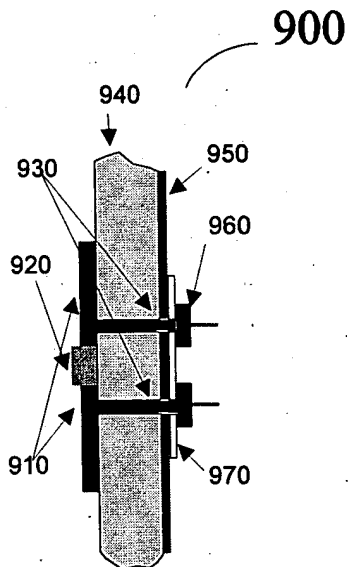


FIGURE 49a

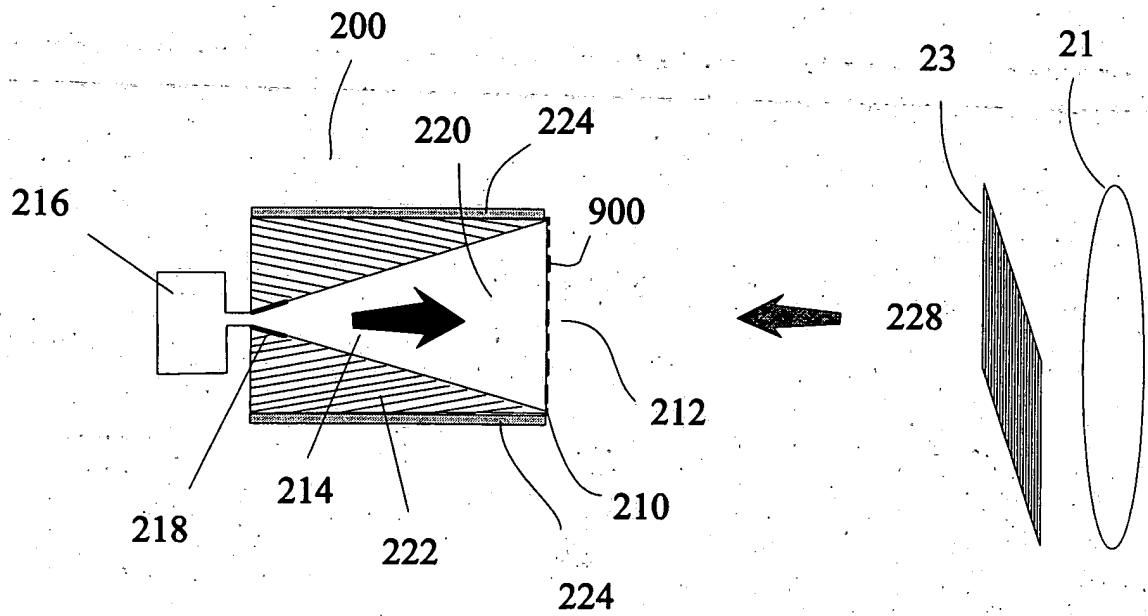


FIGURE 49b

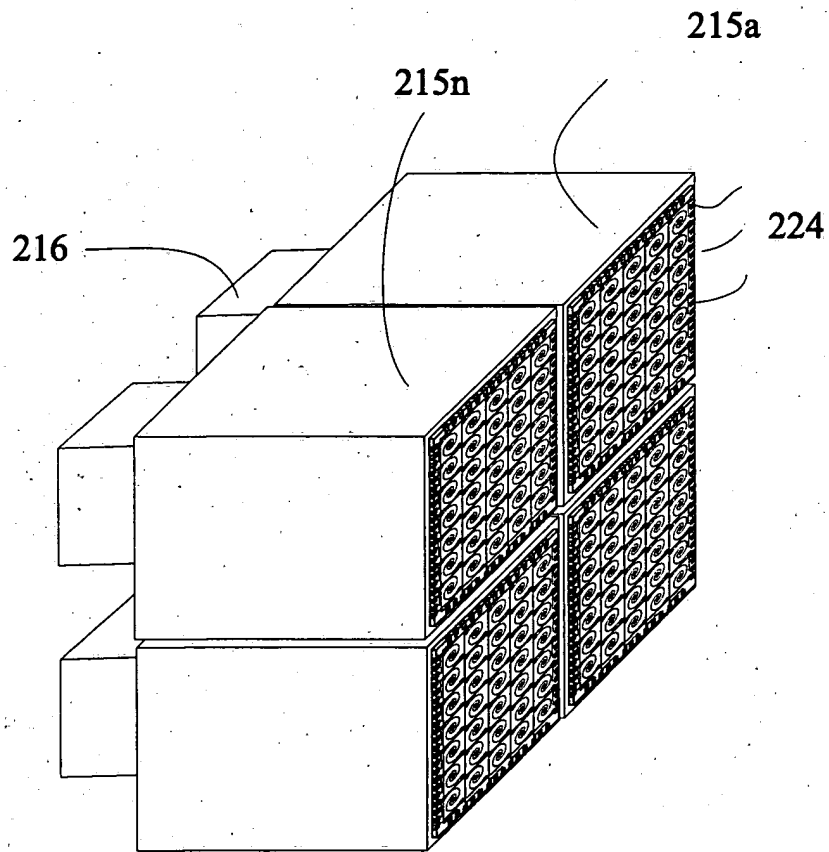


FIGURE 50a

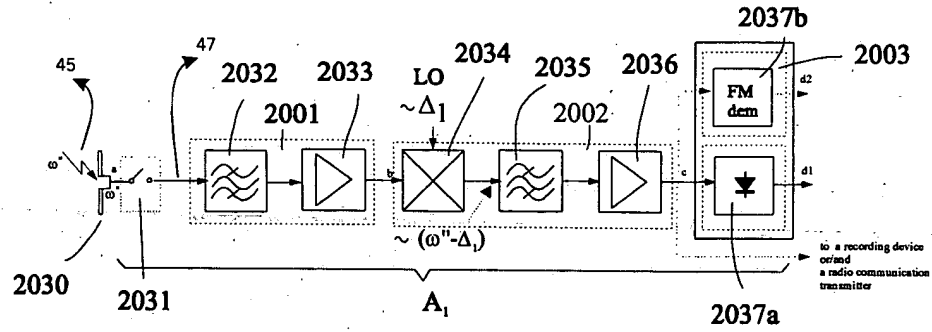


FIGURE 50b

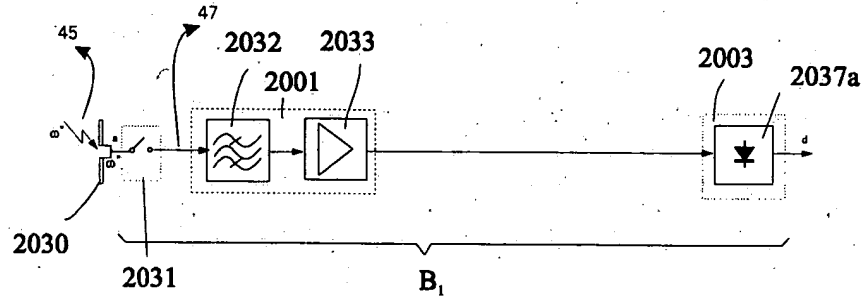


FIGURE 50c

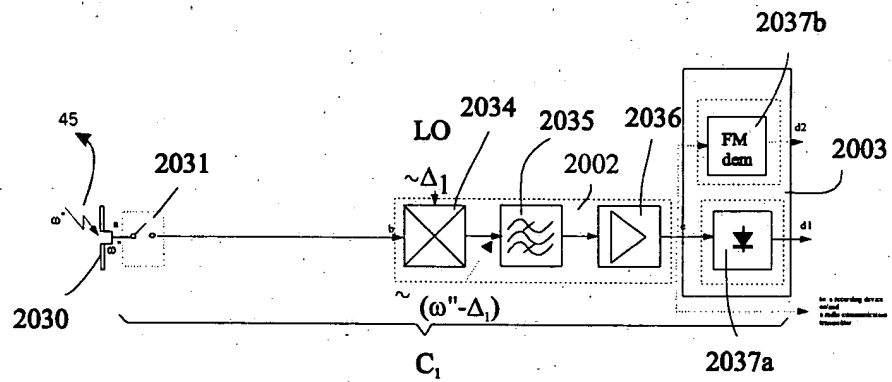


FIGURE 50d

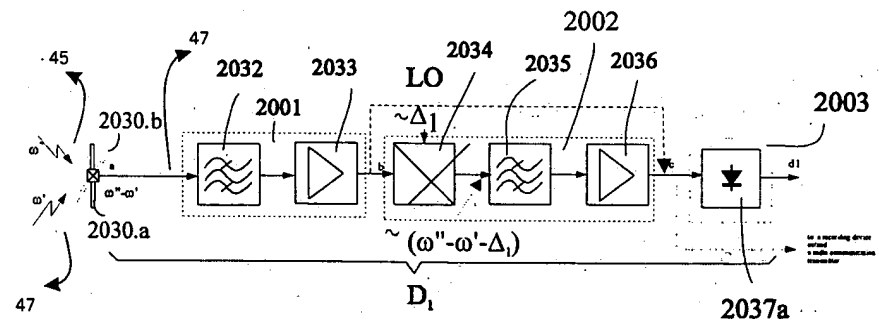


FIGURE 50e

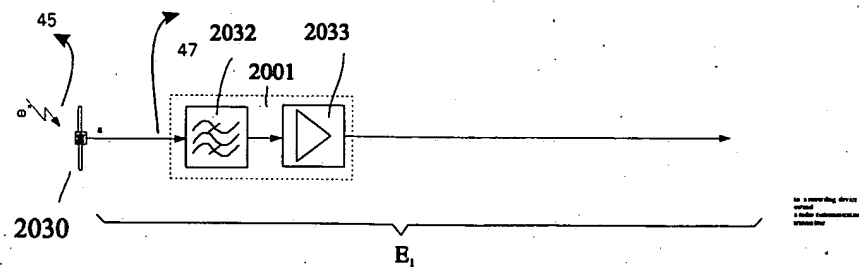




FIGURE 51a

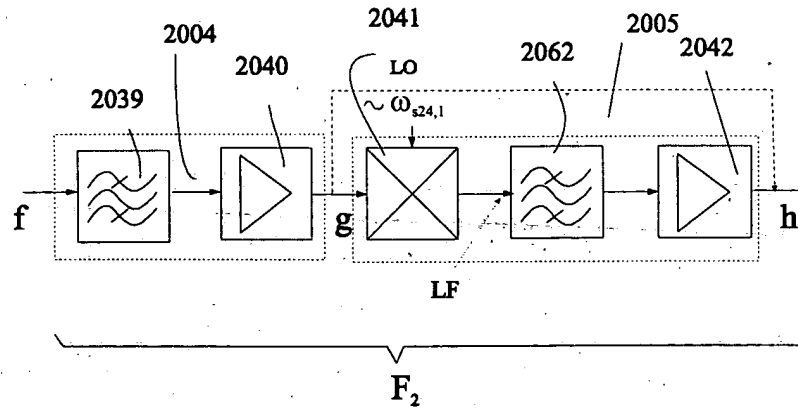


FIGURE 51b

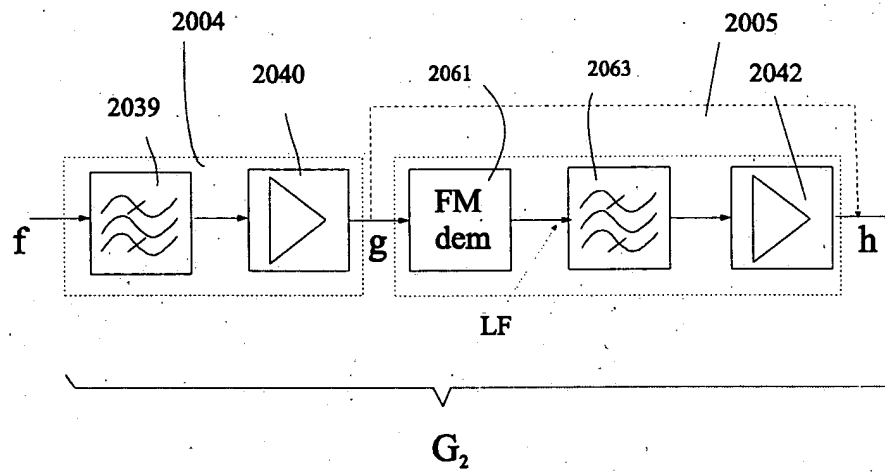


FIGURE 52a

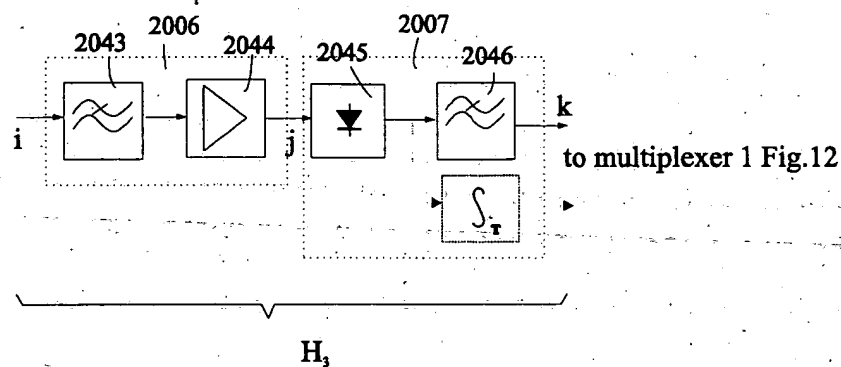


FIGURE 52b

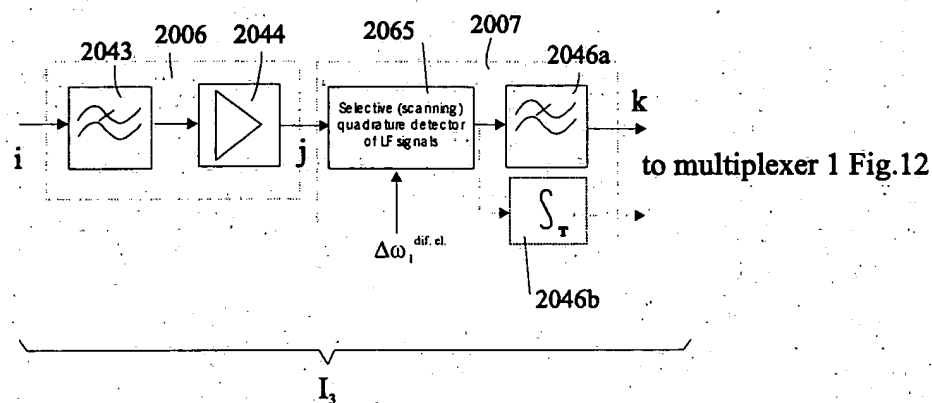


FIGURE 52c

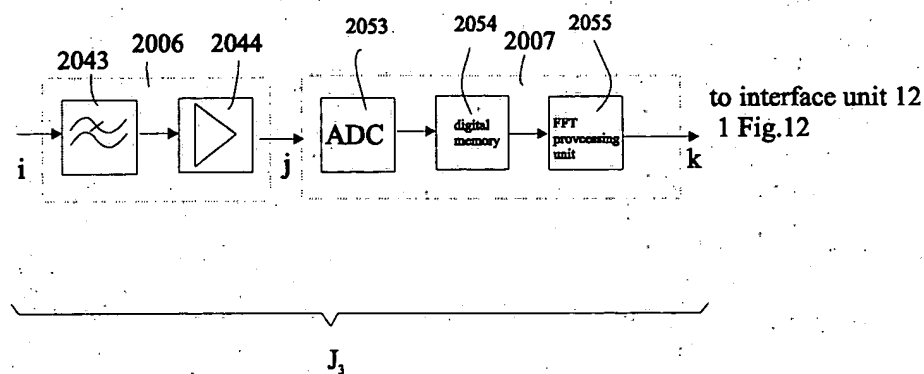


FIGURE 53a

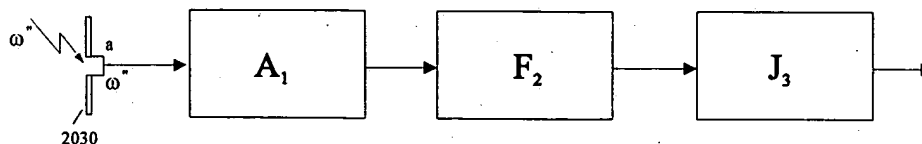


FIGURE 53b

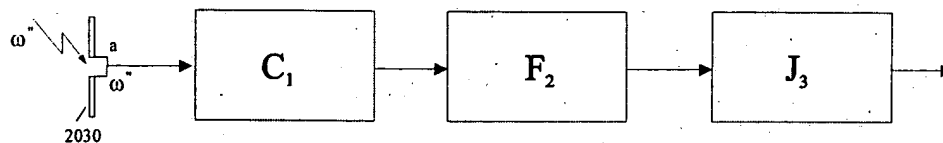


FIGURE 53c

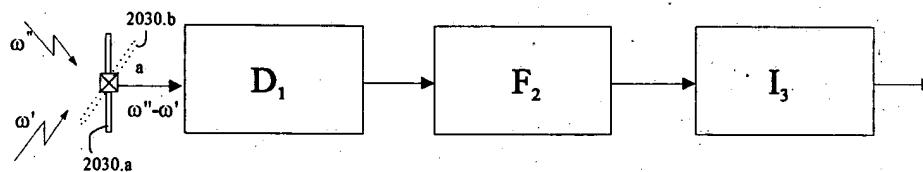


FIGURE 53d

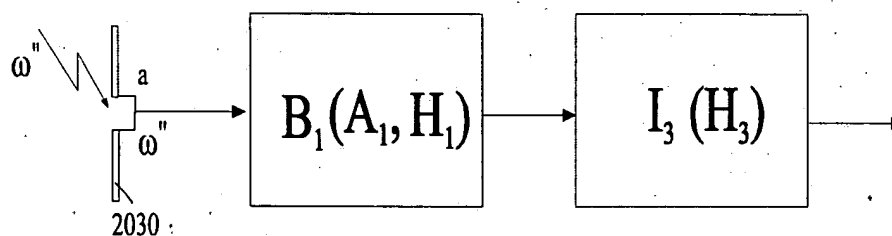


FIGURE 54

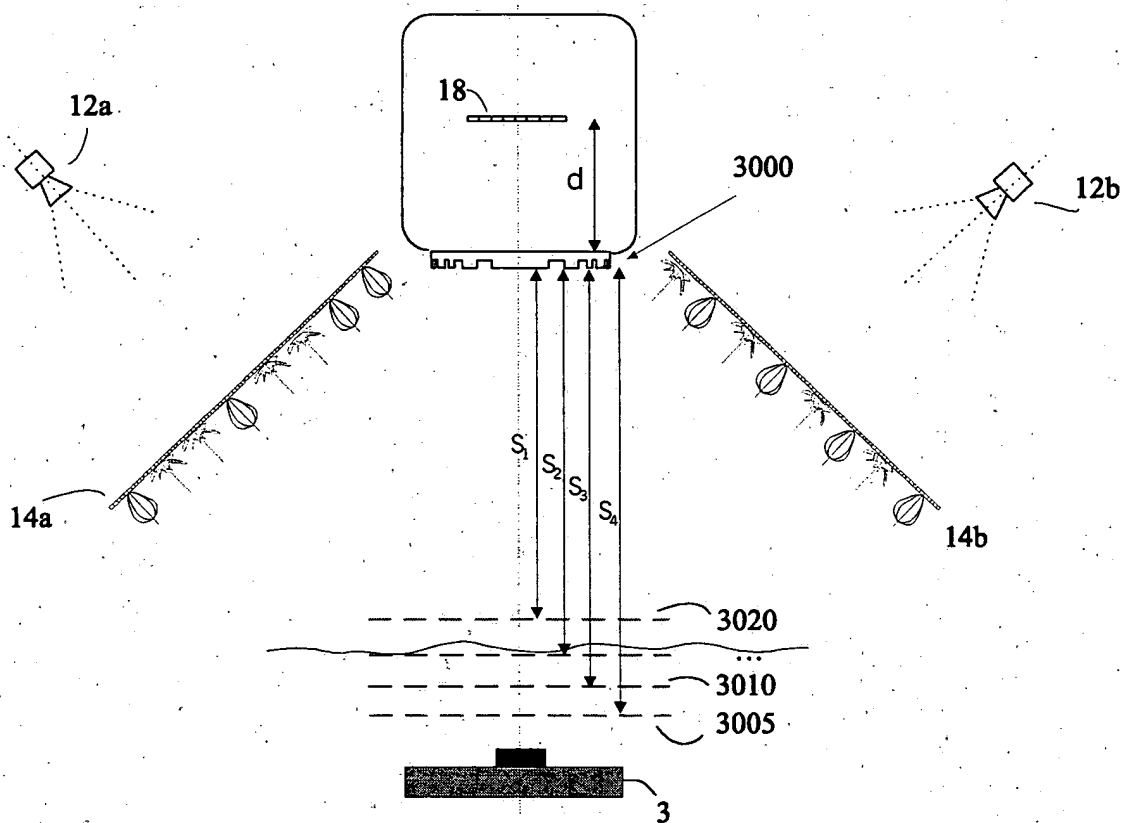


FIGURE 55

